APPENDIX C1 CHEMICAL COMPATIBILITY ANALYSIS OF WASTE FORMS AND CONTAINER MATERIALS





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APPENDIX C1 CHEMICAL COMPATIBILITY ANALYSIS OF WASTE FORMS AND CONTAINER MATERIALS

The chemical compatibility analysis was carried out with all defense generated, contact-handled 4 (CH) and remote-handled (RH) transuranic (TRU)-mixed waste streams reported in the Waste 5 Isolation Pilot Plant (MPP) Transuranic Waste Baseline Inventory Report (WTWBIR) (DOE, 6 1995). A summary of these waste streams is given in Table C-1 (Chapter C). The reported 7 content of CH and RH streams will be verified through the WIPP Generator/Storage Site Waste 8 Screening and Acceptance Audit Program (Appendix C11). 9

All information for the chemical lists and compatibility study is maintained in databases on a 10 personal computer. The chemicals reported by the generator sites are classified into reaction 11 groups as defined by the U.S. Environmental Protection Agency (EPA) document, A Method for 12 Determining the Compatibility of Hazardous Wastes (Hatayama et al., 1980). The chemical lists 13 are derived from the TRUPACT-II database, EPA hazardous waste codes listed in the WTWBIR, 14 and waste descriptions.

A database program was developed to evaluate the chemical compatibility of the WTWBIR waste 16 streams. Potential incompatibilities are defined on Figure 6 of the EPA document (Hatayama 17 et al., 1980), which identifies combinations of chemical groups that are incompatible and the 18 consequences (e.g., heat generation) of mixing incompatible chemical groups. All incompatible 19 mixtures have been entered into a reference data base to be used in assessing the chemical 20 compatibility of a given list of chemicals. The logic of the program used in evaluating the 21 chemical compatibility by content code is described in detail below. 22

As an initial step, the program indexes the entire database according to the WTWBIR waste 23 stream codes. The program then locates the first reaction group within the first waste stream 24 code and picks the highest concentration of any chemical in that group. The selected reaction 25 group is then paired with every other reaction group in the waste stream to check for 26 incompatibility. If a potential incompatibility is found, it is printed out along with the 27 corresponding waste stream codes. After finding all potential incompatibilities for a given waste 28 stream code, the program moves on to the next waste stream code until all waste stream codes 29 have been processed.

To ensure accuracy, the reference database was printed and checked against the EPA document 31 for chemical compatibility, and the WTWBIR waste stream database was printed and checked 32 against the original WTWBIR forms from the generator sites. The list of potential chemical 33 incompatibilities reported by the program was hand checked using the EPA document as a 34 reference to assure proper functioning of the program. All potential chemical incompatibilities 35 were then evaluated on a case-by-case basis to identify which, if any, of the reactions could 36 occur, given the nature of the waste, and the its chemical constituents, and final waste form. 37

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1 Waste streams are classified as "incompatible" if the <u>potential</u> exists for any of the following 2 reactions:

з • corrosion

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- 4 explosion
- heat generation
 - gas generation (flammable gases)
 - pressure build-up (nonflammable gases)
- toxic by-product generation



Each generator and storage site has produced a comprehensive list of all possible chemicals present in its waste. The chemical components found in each waste generation process are determined by examination of the process technology, by chemical analysis, or by process flow analysis. Under this system, all chemical inputs into the system are accounted for, even though all of these components may not be a part of the waste. For example, generator sites might include both acids and bases in their lists, even though the two groups have been neutralized prior to placement in a waste container.

- In addition to the chemicals listed in Appendix 2 of the EPA document (Hatayama et al., 1980), the following components that exhibit toxicity characteristics defined under 40 CFR §261.24 were added to the chemical list in tages (cf. uniotic access), suggiting.
- 18 added to the chemical list in trace (<1 weight percent) quantities:
- 19 Group 3 Acids, Organic
- 20 **2,4-**D
- 21 2,4,5-TP (Silvex)
- 22 Group 17 Halogenated Organics
- 23 Methoxychior
- 24 Toxaphene
- 25 **2,4-**D
- 26 Hexachlorobutadiene
- 27 Hexachioroethane
- 28 Tetrachloroethylene
- 29 2,4,5-Trichlorophenol
- 30 2,4,6-Trichlorophenol

All hazardous constituents listed in the Part A Permit are present in the chemical lists and accounted for in the compatibility analysis.

The compounds listed on the Material Safety Data Sheet for Radiac[™] wash were added to the chemical compatibility assessment. The reactive compounds associated with Radiac[™] wash are:

GROUP	<u>COMPOUND</u>	CONCENTRATION	1
3	citric acid	M	2
106	water	D	3

The compounds found in the fire suppressants in use at the WIPP facility were added to evaluate 4 chemical compatibility of these materials with the test wastes. The following reactive compounds 5 were added: 6

<u>GROUP</u>	COMPOUND	CONCENTRATION	7
14	diethylene glycol monobutyl ether	D	. 8
15	fluorosurfactants	D	9
106	water	D	10

Ansulite 6 percent AFFF (AFC-3) contains diethylene glycol monobutyl ether, fluorosurfactants, 11 and water. The FORAY Dry Chemical Extinguishing Agent contains potassium aluminum silicate, 12 magnesium aluminum silicate, monoammonium phosphate, ammonium sulfate, and methyl 13 hydrogen polysiloxane, which are not hazardous reactive constituents. 14

To account for packaging, container, and backfill materials, the following components were 15 added to the database for each content code in dominant (>10 weight %) quantities: 16

Group 10 Caustics	17
Magnesium Oxide	18
Group 23 Metals, other elemental and alloys as sheets, rods, moldings, drops, etc.	19
Low Carbon Steel D	20

Group 101 Combustible Materials Polyethylene D

The chemical concentration levels are reported as either Trace (T) (<1% by weight), Minor (M) 23 (1-10%), or Dominant (D) (>10%). The chemical list is divided into groups based on chemical 24 properties and structure (e.g., acids, caustics, metals, etc.). If incompatible groups are 25 combined, the possibility exists for the reactions listed above. For example, a reaction between 26 Group 1 (Acids, Mineral, Non-oxidizing) and Group 10 (Caustics) could result in heat generation. 27

Possible chemical incompatibilities between compounds present in trace quantities (<1 percent 28 by weight) and compounds present in concentrations \geq 1 percent by weight (i.e., D x T, D x T1, 29 D x T2, D x T3, M x T, M x T1, M x T2, or M x T3) are included in this report. However, 30 interactions between compounds present in trace quantities (<1 percent by weight) and 31 compounds present in concentrations \leq 1 percent by weight do not pose an incompatibility 32 problem for the following reasons: 33



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- The trace chemicals reported by the sites are in concentrations well below the trace limit of 1 weight percent. Sampling programs show that the concentration levels of these compounds are significantly lower than the upper limit of 1 percent.
 - The trace chemicals are usually dispersed in the waste, which further dilutes concentrations of these materials.
- Trace chemicals that might be incompatible with major and dominant materials/chemicals would have reacted during the waste treatment process prior to placement in waste containers.

9 Because of restrictions imposed by the EPA on reporting of hazardous wastes, some chemicals are listed in trace guantities even if they have already reacted. Hazardous 10 waste regulations as promulgated by the EPA (EPA, 1988) (known as the mixture rule) 11 require that a mixture of any solid waste and a hazardous waste listed in 40 CFR Part 12 261, Subpart D, be considered a hazardous waste subject to Resource Conservation 13 However, Subpart D does not list minimum 14 and Recovery Act regulations. 15 concentrations for these listed wastes, with the result that any such mixtures must be considered hazardous waste even if the Subpart D constituent is at or below detection 16 limits. 17

- The waste is either solidified and immobilized (solidified materials) or present in bulk
 form as a solid (solid materials). In almost all cases, any possible reactions take place
 before the waste is generated in its final form.
- Total trace chemicals within a payload container are limited to less than 5 weight percent.

All potential incompatibilities between trace, minor, and dominant compounds have been 23 analyzed on a case-by-case basis for each waste stream reported in Table C-2 (Chapter C). 24 Some chemicals listed as being present in the waste have reacted prior to placement in a waste 25 container. For example, a site listing a caustic (Group 10) and an acid (Group 1) in its waste 26 has only the neutralized product present in an immobilized form. Further reactions of this type 27 28 do not occur once the waste is neutralized in its final form. An additional constraint on the chemicals and materials that can be present within each waste stream code is their gas 29 generation potential due to radiolysis. 30

Unresolved incompatibilities between trace and minor, trace and dominant, minor and dominant,
 minor and minor, or dominant and dominant waste constituents were identified and segregated.
 These wastes cannot be transported until the incompatibilities are resolved (NuPac, 1989).
 Table C1-1 presents the chemical compatibility analysis for the modified chemical lists for the



waste streams presented in Table C-2 (Chapter C). A list of explanations describing any noted 1 incompatibilities precedes Table C1-1.

Summary of Potential Incompatibilities for Waste Forms and Container Material

The following is a listing and explanation of compatibility code numbers used to identify potential incompatibilities in Table C1-1. Where incompatibilities are noted, it is important to remember that these potential incompatibilities will be removed prior to shipment of the waste to WIPP. That is, unacceptable waste properties listed in Chapter C, Section C1-b will be removed prior to shipping. Verification of the compatibility of final waste forms will be carried out by the WIPP Generator/Storage Site Waste Screening and Acceptance Audit Program (Appendix C8).

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Explanation Code Number Descriptions

- 12 00 $(1 \times 10, 2 \times 10, 3 \times 10, 5 \times 10, 10 \times 13, 10 \times 17, 10 \times 18, 10 \times 19, 10 \times 21, 10 \times 22, 10$ 13 x 23, 10 x 24, 10 x 25, 10 x 27, 10 x 32, 10 x 102, 10 x 107) These potential 14 incompatibilities result from the addition of magnesium oxide backfill material. However, 15 the hydration of magnesium oxide results in the formation of brucite (Mg[OH]₂), which 16 buffers the pH of the solution at approximately 8.5. Therefore, caustic conditions are 17 not produced by the use of magnesium oxide backfill.
 - 0a. (1 x 4) The potential chemical incompatibility is the possible dehydration or displacement reactions between non-oxidizing mineral acids (Group 1) and alcohols and glycols in waste forms (Group 4) resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.
- 270aa.(1 x 10) The potential chemical incompatibility is the possible acid-base reaction28between strong mineral acids (Group 1) and strong caustics (Group 10) resulting in heat29generation. The potential chemical incompatibility results from reporting trace quantities30(<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing</td>31mineral acids are neutralized prior to packaging, and the materials in this waste stream32are considered chemically compatible.
- 340aaa.(1 x 14) The potential chemical incompatibility is the possible hydrolysis reaction35between strong mineral acids (Group 1) and ethers (Group 14), resulting in heat36generation. The potential chemical incompatibility results from reporting trace quantities37(<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing</td>38mineral acids are neutralized prior to packaging, and the materials in this waste stream39are considered chemically compatible.

0aaaa. (1 x 15) The potential chemical incompatibility is the possible formation of hydrogen
 fluoride when strong mineral acids (Group 1) mix with inorganic fluorides (Group 15),
 resulting in toxic gas generation. The potential chemical incompatibility results from
 reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams.
 However, the non-oxidizing mineral acids are neutralized prior to packaging, and the
 materials in this waste stream are considered chemically compatible.

0b. (1 x 17) The potential chemical incompatibility is the possible reaction between strong
 mineral acids (Group 1) and halogenated organics (Group 17), resulting in generation
 of heat and toxic hydrogen halide fumes. The potential chemical incompatibility results
 from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams.
 However, the non-oxidizing mineral acids are neutralized prior to packaging, and the
 materials in this waste stream are considered chemically compatible.

0bb. (1 x 19) The potential chemical incompatibility is the possible condensation reaction
 between strong mineral acids (Group 1) and ketones (Group 19), resulting in generation
 of heat. The potential chemical incompatibility results from reporting trace quantities
 (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing
 mineral acids are neutralized prior to packaging, and the materials in this waste stream
 are considered chemically compatible.

191.(1 x 23) The potential chemical incompatibility is the possible reaction between non-
oxidizing mineral acids (Group 1) and metals and other elemental alloys as sheets, rods,
moldings, drops, etc. (Group 23). The non-oxidizing mineral acids are present only in
trace quantities (<1%) and are neutralized and bound in the cemented waste form. Due
to the immobilization and prior reaction of the acids, the materials in this waste stream
are considered chemically compatible.

25 2. (1 x 24) The potential chemical incompatibility is the tendency of non-oxidizing mineral 26 acids (Group 1) to solubilize toxic metals and metal compounds (Group 24). The 27 mineral acids are present only in trace quantities (<1%) and are neutralized and bound 28 in the cemented waste form. Due to the immobilization and prior reaction of the non-29 oxidizing acids, the materials in this waste stream are considered chemically compatible.

30 3. (1 x 101) The potential chemical incompatibility is the possible reaction between non-31 oxidizing mineral acids (Group 1) and combustible materials (Group 101). The mineral 32 acids are present only in trace quantities (<1%) and are neutralized and bound in the 33 cemented waste form. An absorbent has been added to immobilize free liquids. Due 34 to the immobilization and prior reaction of the non-oxidizing acids, the materials in this 35 waste stream are considered chemically compatible.

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- 3a. (1 x 102) The potential chemical incompatibility is the possible violent reaction between 1 non-oxidizing mineral acids (Group 1) and explosives (Group 102). However, explosives 2 are not allowed to be shipped to WIPP unless treatment renders them inert. 3 Additionally, mineral acids are present only in trace quantities (<1%) and are neutralized 4 prior to loading in waste containers. Therefore, the materials in this waste stream are 5 considered chemically compatible.
- 3aa. (1 x 104) The potential chemical incompatibility is the possible reaction between nonoxidizing mineral acids (Group 1) and strong oxidizing agents (Group 104), resulting in heat and generation of toxic and corrosive gases. However, the mineral acids and oxidizing agents are present in trace quantities (<1%) and neutralized prior to loading 10 in waste containers. Therefore, the materials in this waste stream are considered 11 chemically compatible.
- 3b. (1 x 106) The potential chemical incompatibility is the possible reaction between mineral 13 acids (Group 1) and water (Group 106), resulting in the generation of heat. This 14 potential incompatibility results from the presence of water in Ansulite™ fire 15 extinguishing agents and/or Radiac™ wash solutions and/or absorbed water. However, 16 the mineral acids are present only in trace quantities (<1%) and are neutralized prior to 17 loading in waste containers. In addition, the presence of any absorbed liquids are 18 immobilized in an absorbent and would not be available for reaction. 19
- 3c. (2 x 3) The potential chemical incompatibility is the reaction of oxidizing mineral acids 20 (Group 2) with organic acids (Group 3) resulting in heat and gas generation. The 21 potential chemical incompatibility results from the use of citric acid in Radiac[™] wash 22 solutions. The solid citric acid is diluted during preparation of the Radiac[™] wash and 23 is often further diluted prior to use for decontamination. As a result, the potential for 24 reactions of solid citric acid with oxidizing mineral acids in waste forms is removed. 25
- 3d. (2 x 4) The potential chemical incompatibility is the possible dehydration or 26 displacement reactions between oxidizing mineral acids (Group 2) and alcohols and 27 glycols (Group 4), resulting in heat generation. The potential chemical incompatibility 28 results from reporting trace quantities (<1%) of oxidizing acid in generator waste 29 streams. However, the oxidizing mineral acids are neutralized prior to packaging, and 30 the materials in this waste stream are considered chemically compatible. 31
- 3e. (2 x 10) The potential chemical incompatibility is the possible acid-base reaction 32 between oxidizing mineral acids (Group 2) and strong caustics (Group 10), resulting in 33 heat generation. The potential chemical incompatibility results from reporting trace 34 quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing 35 mineral acids are neutralized prior to packaging, and the materials in this waste stream 36 are considered chemically compatible. 37



3ee. (2 x 13) The potential chemical incompatibility is the possible reaction between
 oxidizing mineral acids (Group 2) and esters (Group 13), resulting in heat generation.
 The potential chemical incompatibility results from reporting trace quantities (<1%) of
 oxidizing acid in generator waste streams. However, the oxidizing mineral acids are
 neutralized prior to packaging, and the materials in this waste stream are considered
 chemically compatible.

- 7 3f. (2 x 14) The potential chemical incompatibility is the possible hydrolysis reaction 8 between oxidizing mineral acids (Group 2) and ethers (Group 14), resulting in heat 9 generation. The potential chemical incompatibility results from reporting trace quantities 10 (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral 11 acids are neutralized prior to packaging, and the materials in this waste stream are 12 considered chemically compatible.
- 3g. (2 x 15) The potential chemical incompatibility is the possible formation of hydrogen
 fluoride when oxidizing mineral acids (Group 2) mix with inorganic fluorides (Group 15),
 resulting in toxic gas generation. The potential chemical incompatibility results from
 reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However,
 the oxidizing mineral acids are neutralized prior to packaging, and the materials in this
 waste stream are considered chemically compatible.
- 193gg.(2 x 16) The potential chemical incompatibility is the possible reaction between oxidizing20mineral acids (Group 2) and aromatic hydrocarbons (Group 16). Oxidation of the21hydrocarbon may produce enough heat to ignite the mixture. The potential chemical22incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator</td>23waste streams. However, the oxidizing mineral acids are neutralized prior to packaging,24and the materials in this waste stream are considered chemically compatible.
- 253h.(2 x 17) The potential chemical incompatibility is the possible reaction between26oxidizing mineral acids (Group 2) and halogenated organics (Group 17), resulting in27generation of heat and toxic hydrogen halide fumes. The potential chemical28incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator</td>29waste streams. However, the oxidizing mineral acids are neutralized prior to packaging,30and the materials in this waste stream are considered chemically compatible.
- 31 3i. (2 x 19) The potential chemical incompatibility is the possible condensation reaction 32 between oxidizing mineral acids (Group 2) and ketones (Group 19), resulting in 33 generation of heat. The potential chemical incompatibility results from reporting trace 34 quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing 35 mineral acids are neutralized prior to packaging, and the materials in this waste stream 36 are considered chemically compatible.

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- 3j. (2 x 20) The potential chemical incompatibility is the possible reaction between 1 oxidizing mineral acids (Group 2) and mercaptans (Group 20), resulting in generation 2 of heat and toxic hydrogen sulfide fumes. The potential chemical incompatibility results 3 from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. 4 However, the oxidizing mineral acids are neutralized prior to packaging, and the 5 materials in this waste stream are considered chemically compatible.
- 4. (2 x 23) The potential chemical incompatibility is the possible reaction between 7 oxidizing mineral acids (Group 2) and metals and other elemental alloys as sheets, rods, 8 moldings, drops, etc. (Group 23). The oxidizing mineral acids are present only in trace 9 quantities (<1%) and are reacted prior to loading in waste containers. In addition, the 10 oxidizing mineral acids are fixed in the solidified product and would not be available to 11 react with the metal.
- (2 x 23) The potential chemical incompatibility is the possible reaction between 13 oxidizing mineral acids (Group 2) and metals and other elemental alloys as sheets, rods, 14 moldings, drops, etc. (Group 23). The oxidizing mineral acids are present only in trace 15 quantities (<1%) as residues on glass or rubber gloves, and not as free liquids that 16 could react with metals.
- 6. (2 x 24) The potential chemical incompatibility is the solubilization of toxic metals and 18 metal compounds (Group 24) in oxidizing mineral acids (Group 2). The oxidizing 19 mineral acids are present only in trace quantities (<1%) and are reacted prior to loading 20 in waste containers. In addition, the oxidizing mineral acids are fixed in the solidified 21 product and would not be available to react with the metal.
- 7. (2 x 24) The potential chemical incompatibility is the possible reaction between 23 oxidizing mineral acids (Group 2) and toxic metals and compounds (Group 24). The 24 oxidizing mineral acids are present only in trace quantities (<1%) as residues on glass 25 or rubber gloves, and not as free liquids that could react with metals. 26</p>
- 7a. (2 x 27) The potential chemical incompatibility is the possible reaction between 27 oxidizing mineral acids (Group 2) and nitro compounds (Group 27), resulting in 28 generation of heat and toxic nitrogen oxide fumes. The potential chemical 29 incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator 30 waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, 31 and the materials in this waste stream are considered chemically compatible. 32

(2 x 101) The potential chemical incompatibility is the possible reaction between 33 oxidizing mineral acids (Group 2) and combustible materials (Group 101). The oxidizing 34 mineral acids are present only in trace quantities (<1%) as residues on glass or rubber 35 gloves, and not as free liquids that could react with metals. 36



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9. (2 x 101) The potential chemical incompatibility is the possible decomposition of combustible materials (Group 101) by the oxidizing mineral acids (Group 2). The oxidizing mineral acids are present only in trace quantities (<1%) and are reacted prior to loading in waste containers. In addition, the oxidizing mineral acids are fixed in the solidified product and would not be available to react with the combustible materials.

9a. (2 x 102) The potential chemical incompatibility is the possible violent reaction between
 oxidizing mineral acids (Group 2) and explosives (Group 102). However, explosives are
 not allowed to be shipped to WIPP unless treatment renders them inert. Additionally,
 mineral acids are present only in trace quantities (<1%) and are neutralized prior to
 loading in waste containers. Therefore, the materials in this waste stream are
 considered chemically compatible.

12 10. (2 x 106) The potential chemical incompatibility is the possible dissolution of oxidizing 13 mineral acids (Group 2) by water (Group 106). The oxidizing mineral acids are present 14 only in trace quantities (<1%) and reacted prior to loading in waste containers. Both the 15 water and the oxidizing mineral acids are fixed in the solidified product and would not 16 be available for reaction.

17 10a. (2 x 106) The potential chemical incompatibility is the possible reaction between
oxidizing mineral acids (Group 2) and water (Group 106), resulting in the generation of
heat. This potential incompatibility results from the presence of water in Ansulite™ fire
extinguishing agents and/or Radiac™ wash solutions and/or absorbed water. However,
the mineral acids are present only in trace quantities (<1%) and are neutralized prior to
loading in waste containers. In addition, the presence of any absorbed liquids are
immobilized in an absorbent and would not be available for reaction.

2411.(3 x 4) The potential chemical incompatibility is the possible reaction between organic25acids (Group 3) and alcohols and glycols (Group 4). The organic acids are immobilized26in a cement matrix and not available to react with the alcohols and glycols. The27alcohols and glycols are also immobilized in the solidified product.

 (3×4) The potential chemical incompatibility is the heat generated by polymerization 28 11aa. of alcohols and glycols (Group 4) by organic acids (Group 3). Carboxylic acids with a-29 halogen substituents, or α - or β -hydroxyl substituents (e.g., citric acid) are the main 30 concern among the organic acids (Group 3). The potential chemical incompatibility 31 results from the use of citric acid in Radiac[™] wash solutions. The solid citric acid is 32 diluted during preparation of the Radiac[™] wash and is often further diluted prior to use 33 34 for decontamination. As a result, the potential for reactions of solid citric acid with alcohols and glycols (Group 4) that are dispersed and fixed in waste forms is removed. 35

- 11b. (3 x 10) The potential chemical incompatibility is the possibility of acid-base reactions.
 1 The organic acids (Group 3) are neutralized in a cement matrix and are not available
 1 to react with the Caustics (Group 10). Thus, this potential chemical incompatibility
 3 would not occur.
- 11c. (3 x 10) The potential chemical incompatibility is the heat generated by reactions of 5 organic acids (Group 3) with caustics (Group 10). The potential chemical incompatibility 6 results from the use of citric acid in Radiac[™] wash solutions. The solid citric acid is 7 diluted during preparation of the Radiac[™] wash and is often further diluted prior to use 8 for decontamination. As a result, the potential for reactions of solid citric acid with 9 caustics in test waste forms is removed. The caustic in the waste forms is calcium 10 oxide. Thus, the more significant incompatibility is potential hydrolysis reaction between 11 water and calcium oxide to release heat. Because the calcium oxide is dispersed in the 12 wastes, reaction is considered unlikely.
- 11d. (3 x 15) The potential chemical incompatibility is toxic and corrosive fumes generated 14 by reactions of organic acids (Group 3) with metal fluoride salts (Group 15). The 15 potential chemical incompatibility results from the use of citric acid in Radiac[™] wash 16 solutions. The solid citric acid is diluted during preparation of the Radiac[™] wash and 17 is often further diluted prior to use for decontamination. As a result, the potential for 18 reactions of solid citric acid with fluoride salts in waste forms is removed.
- 12. (3 x 24) The potential chemical incompatibility is the possible reaction between organic 20 acids (Group 3) and toxic metals and compounds (Group 24). The organic acids are 21 basified prior to cementation and do not exist as free acids in the resulting product. 22 Based on the immobilization of the acids, reactions are considered highly unlikely. In 23 this case, solubilization is not possible.
- 12aa. (3 x 24) The potential chemical incompatibility is solubilization of toxic metals 25 (Group 24) by complexation with organic acids (Group 3). The potential chemical 26 incompatibility results from the use of citric acid in Radiac[™] wash solutions. The solid 27 citric acid is diluted during preparation of the Radiac[™] wash and is often further diluted 28 prior to use for decontamination. As a result, the potential for reactions of solid citric 29 acid with toxic metals in waste forms is removed. 30
- 12bbb. (3 x 104) The potential chemical incompatibility is decomposition of the hydrocarbon 31 moiety of organic acids (Group 3) by oxidizing agents (Group 104) resulting in heat and 32 gas formation. The potential chemical incompatibility results from the use of citric acid 33 in Radiac[™] wash solutions. The solid citric acid is diluted during preparation of the 34 Radiac[™] wash and is often further diluted prior to use for decontamination. As a result, 35 the potential for reactions of solid citric acid with oxidizing agents that are dispersed and 36 fixed in waste forms is removed.



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1 12bb. (4 x 104) The potential chemical incompatibility is formation of unstable compounds by 2 reaction of alcohols and glycols (Group 4) with oxidizing agents (Group 104). However 3 the alcohols and glycols are present as trace quantities (<1%) in the waste stream, and 4 they are further isolated by dissemination within the waste stream. Additionally, 5 oxidizing agents must be neutralized prior to shipment to WIPP. Therefore, the final 6 waste form will contain compatible materials.

- 7 12b. (7 x 17) The potential chemical incompatibility between amines (Group 7) and
 8 halogenated organics (Group 17) would not occur because the halogenated organics
 9 are solidified and are not available for reaction.
- 10 12c. (7 x 24) The potential chemical incompatibility is the possible increase in the solubility 11 of toxic metal compounds in water due to amines acting as potential surfactants. The 12 amines are present only in trace (<1%) and are immobilized through absorption on 13 sorbent materials. Also, these solid waste forms usually contain very little water and 14 excess sorbents are added to waste containers to sorb any fluids.
- 15 12d. (7 x 104) The potential chemical incompatibility is formation of toxic nitrogen oxide 16 fumes by reaction of amines (Group 7) with oxidizing agents (Group 104). However, the 17 alcohols and glycols are present as trace quantities (<1%) in the waste stream, they are 18 further isolated by dissemination within the waste stream. Additionally, oxidizing agents 19 must be neutralized prior to shipment to WIPP. Therefore, the final waste form will 20 contain compatible materials.
- 2112e.(8 x 23) The potential chemical incompatibility is combustion of some azo compounds22(Group 8) on contact with surfaces of metal sheets, rods, drops, etc (Group 23).23However the azo compounds are present as trace quantities (<1%) in the waste stream</td>24and are further isolated by dissemination within the waste stream. Therefore,25spontaneous combustion by reaction with metal surfaces is unlikely.
- 12f. (8 x 106) The potential chemical incompatibility is the generation of nitrogen gas by 26 reaction of some azo compounds (Group 8) with water (Group 106). This potential 27 incompatibility results from the presence of water in Ansulite™ fire extinguishing agents 28 and/or Radiac[™] wash solutions and/or absorbed water. However, the azo compounds 29 are present only in trace quantities (T<1%) and are disseminated in the waste 30 containers, which minimizes their potential to form nitrogen gas. In addition, the 31 presence of any absorbed liquids are immobilized in an absorbent and would not be 32 33 available for reaction.
- 13. (10 x 17) The potential chemical incompatibility is the possible reaction between
 caustics (Group 10) and halogenated organics (Group 17). The caustic in this content
 code is calcium oxide, a solid, which is dispersed in the chloride salts. The halogenated

organics are present in only trace quantities (T<1%) and are absorbed, immobilized, or 1 solidified. Due to the immobilization of the calcium oxide in the salt, reactions are 2 considered highly unlikely.

- 13a. (10 x 19) The potential chemical incompatibility is the possible self-condensation of 4 ketones (Group 19) catalyzed by caustics (Group 10). The caustic in this content code 5 is calcium oxide, a solid, which is dispersed in the chloride salts. Due to the 6 immobilization of the calcium oxide in salt, reactions are considered highly unlikely. 7
- 14. (10 x 23) The potential incompatibility is the possible reaction between caustics (Group 8
 10) metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 9
 23). The caustic in this waste stream code is calcium oxide, a solid, which is dispersed 10
 in the chloride salts. Due to the immobilization of the calcium oxide in salt, dissolution 11
 of metals in caustics is not possible.
- 15. (10 x 23) The potential incompatibility is the possible dissolution of metals and other
 13 elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) in caustics (Group 14
 10). The caustics are present only in trace quantities (<1%) and are reacted prior to
 15 loading in waste containers. In addition, the caustics are fixed in the cemented sludge
 16 and would not be available to react with the metals.
- 16. (10 x 24) The potential chemical incompatibility is the possible solubilization of toxic 18 metals (Group 24) in caustics (Group 10). The caustic in this content code is calcium 19 oxide, a solid, which is dispersed in the chloride salts. In this case, solubilization is not 20 possible. 21
- 16a. (10 x 24) The potential incompatibility is the possible solubility of toxic metals (Group 22
 24) in caustics (Group 10). The caustics are present only in trace (<1% quantities and 23 are reacted prior to loading in waste containers. In addition, the caustics are fixed in 24 the cemented sludge and would not be available to react with the metals. 25
- 16b. (10 x 27) The potential chemical incompatibility is the formation of salts from nitro 26 alkanes (Group 27) and caustics (Group 10) in the presence of water. The only caustic 27 in this content code is calcium oxide, a solid, which is dispersed in the chloride salts. 28 In addition, liquids are immobilized through absorption on sorbent materials. Due to the 29 immobilization of the caustic in the fused salt, this reaction would not occur. 30
- 16c. (10 x 102) The potential chemical incompatibility is the possible violent reaction 31 between caustics (Group 10) and explosives (Group 102) due to the generation of heat. 32 However, explosives are not allowed to be shipped to WIPP unless treatment renders 33 them inert. Additionally, caustics are present only in minor quantities (<10%) and are 34





- neutralized prior to loading in waste containers. Therefore, the materials in this waste stream are considered chemically compatible.
- 17. (10 x 107) This potential incompatibility is an artifact of the EPA method. Calcium
 oxide appears in Groups 10 and 107, and is compatible within itself.
- 17a. (14 x 104) This potential incompatibility is the reaction of ethers (Group 14) with strong oxidizers (Group 104) to produce heat, and possibly ignition or explosions. This incompatibility arises from the presence of diethylene glycol monobutyl ether in Ansulite™ fire extinguishing agents. However, the strong oxidizers are present in trace quantities (<1%) and disseminated in the waste, making ignition or explosions unlikely in the event the fire extinguishers are used.
- 1117b. (14×107) This potential chemical incompatibility is the reaction of ethers (Group 14)12with water reactives (Group 107). This incompatibility arises from the presence of13diethylene glycol monobutyl ether in AnsuliteTM fire extinguishing agents. However, the14water reactive substances are present in trace quantities (<1%) and disseminated in the</td>15waste, making reactions unlikely in the event the fire extinguishers are used.
- 1618. $(15 \ge 107)$ This potential chemical incompatibility is the reaction of fluorides (Group 15)17and water reactive substances (Group 107). The solid fluorides are present in only18trace quantities (T<1%) and form part of the pyrochemical salt matrix. Calcium oxide,</td>19the only water reactive substance present, is a solid dispersed in the pyrochemical salt20matrix. These salts always occur with each other and are compatible.
- 18a. (17 x 20) The potential chemical incompatibility is the possible reaction between
 halogenated organics (Group 17) and mercaptans (Group 20), resulting in generation
 of heat. The potential chemical incompatibility results from reporting trace quantities
 (<1%) of halogenated organics and mercaptans in generator waste streams. However,
 the chemicals are neutralized prior to packaging, and the materials in this waste stream
 are considered chemically compatible.
- 19. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics
 (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc.
 (Group 23). The halogenated organics are present in only trace quantities (T1<1%) and
 are fixed in cemented sludge and would not be available to react with the metals.
- 20. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics
 (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops,
 etc. (Group 23). The halogenated organics are present in only trace quantities (T<1%)
 and are absorbed on combustibles. The halogenated organics are not present as free
 liquids to react with the metals.

- 21. (17 x 23) The potential chemical incompatibility is the potential reaction between halogenated organics (Group 17) and metals and other elemental alloys as sheets, rods. 2 drops, moldings, etc. (Group 23). Aluminum and magnesium in bulk forms are 3 especially reactive with halogenated hydrocarbons, releasing much heat. Although this 4 is a potential incompatibility, the potential effects are considered minimal for the 5 following reasons. First, the halogenated hydrocarbons are only present in trace 6 quantities (<1 percent by weight) and are immobilized through absorption on sorbent 7 materials or solidification with calcium silicates or gypsum-base processes. Second. 8 although the metals of concern may occur in dominant quantities in the content code, 9 the metals only occur as large pieces and not in powder form. Due to the trace 10 quantities of immobilized halogenated organics and the non-powder size of the metal 11 pieces, any reaction that may occur will produce minimal heat. 12
- (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics
 (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops,
 etc. (Group 23). The halogenated organics are present in only very small trace
 quantities (<1 part per million) as residual films on the glass and not as free liquids that
 could react with metals.
- 23. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics 18 (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc. 19 (Group 23). The halogenated organics are present in only trace quantities (<1%) as 20 coatings on solid organic materials and are not present as free liquids that could react 21 with metals.
- 24. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics 23 (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc. 24 (Group 23). The halogenated organics are present in only trace quantities (<1%) as 25 coating on the inorganic solid materials and are not present as free liquids that could 26 react with metals.
- 25. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics 28 (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc. 29 (Group 23). The halogenated organics are fixed in the cemented product and would not 30 be available for reaction.
- 26. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics 32 (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops, 33 etc. (Group 23). The halogenated organics are fixed in the solidified product and are 34 not available for reaction with the metals. 35



27. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics
 (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops,
 etc. (Group 23). An absorbent has been added to immobilize any free liquids that may
 exist. Due to the trace quantities and immobilization of the halogenated organics,
 reactions are highly unlikely.

6 28. (17 x 104) The potential chemical incompatibility is the reaction of halogenated organics 7 (Group 17) with oxidizing agents (Group 107), resulting in the liberation of heat and 8 formation of toxic gases. The halogenated organics are present in only trace quantities 9 (<1%) and are not in the form of free liquids. Additionally, the oxidizing agents are 10 neutralized prior to loading waste containers. Therefore, based on the neutralization of 11 the oxidizing agents, reactions are considered highly unlikely.

12 28a. (18 x 106) The potential incompatibility is the possible reaction between isocyanates
 13 (Group 18) with water (Group 106). The isocyanates are present only in trace quantities
 14 (<1%). The water is usually fixed in the solidified product and would not be available
 15 for reaction.

16 28aa. (18 x 106) The potential chemical incompatibility is between isocyanates (Group 18)
 and water (Group 106) to generate carbon dioxide gas and heat. The potential chemica
 incompatibility results from the use of water in Ansulite™ fire extinguishing agents and
 Radiac™ wash solutions. However, isocyanates in the waste forms are present in trace
 quantities (<1%), are neutralized and fixed prior to loading the waste containers, and are
 not available for reaction. Therefore, the final waste form contains compatible materials.

28aaa. (19 x 20) The potential chemical incompatibility is the reaction between ketones (Group
 19) and mercaptans (Group 20), resulting in heat generation. These chemicals are
 present only in trace quantities (<1%) as coatings on laboratory glassware. Therefore,
 contact between the chemicals, if it occurs, will be limited.

28b. (21 x 101) The potential chemical incompatibility is the reaction of alkali and alkaline 27 earth metals (Group 21) with residual water present in the combustible materials (101), 28 resulting in heat generation and ignition of the combustible materials. However, the 29 combustible materials are polyethylene and polyvinyl chloride packaging materials which 30 contain no residual water. Additionally, alkali and alkaline earth metals must be 31 neutralized prior to shipment to WIPP. Therefore, the final waste form will contain 32 compatible materials.

28c. (21 x 104) The potential chemical incompatibility is the violent reaction between alkali
 and alkaline earth metals (Group 21) and oxidizing agents (Group 104). Oxidizing
 agents are present in trace quantities (<1%) and are neutralized prior to packaging -

Additionally, alkali and alkaline earth metals must be neutralized prior to shipment to 1 WIPP. Therefore, the final waste form will contain compatible materials. 2

- 28d. (21 x 106) The potential chemical incompatibility is the violent reaction between alkali
 and alkaline earth metals (Group 21) and water (Group 106), resulting in the evolution
 of hydrogen gas and formation of strong caustics. However, alkali and alkaline earth
 metals must be neutralized prior to shipment to WIPP. Therefore, the final waste form
 will contain compatible materials.
- 28e. (22 x 106) The potential chemical incompatibility is the reaction of metal powders 8 (Group 22) with water (Group 106), resulting in the evolution of hydrogen gas and 9 production of heat. Metal powders or shavings are present as trace quantities (<1%) 10 on paper, rags, and rubber. This potential incompatibility results from the presence of 11 water in Ansulite™ fire extinguishing agents and/or Radiac™ wash solutions and/or 12 absorbed water. However, metal powders or shavings are present as trace quantities 13 (<1%) on paper, rags, and rubber, which minimizes their potential to form hydrogen gas. 14 In addition, the presence of any absorbed liquids are immobilized in an absorbent and 15 would not be available for reaction.
- 29. (23 x 104) The potential incompatibility is the possible reaction between metals and 17 other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) and oxidizing 18 agents (Group 104). The oxidizing agents are present only in trace quantities (<1%) 19 and reacted prior to loading in waste containers. The waste is mixed with cement to 20 absorb any residual liquid. Due to the immobilization and prior reaction of the oxidizing 21 agents, reactions are highly unlikely.
- 30. (23 x 104) The potential incompatibility is the possible reaction between metals, other 23 elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) and oxidizing agents 24 (Group 104). The oxidizing agents are present only in trace quantities (<1%) and 25 dissolved in aqueous solutions that were cemented into a solid monolith-type structure. 26 Due to the immobilization and prior reaction of the oxidizing agents, reactions will not 27 occur.
- 31. (23 x 107) The potential incompatibility is the possible reaction between metals and 29 other elemental alloys, as sheets, rods, moldings, drops, etc. (Group 23) and water 30 reactive substances (Group 107). The outer low carbon steel drum is the only Group 31 23 metal found in this content code. Calcium oxide, the only water reactive substance 32 present, is a solid dispersed in the chloride salts. Based on the immobilization of the 33 calcium oxide in the salt, reactions are considered highly unlikely.





1 32. (23 x 107) The potential incompatibility is the possible reaction between metals and 2 other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) and water 3 reactive substances (Group 107). Calcium oxide, the only water reactive substance 4 present, is a solid dispersed in the chloride salts. Based on the immobilization of the 5 calcium oxide in the salt, reactions are considered highly unlikely.

6 33. (24 x 106) The potential chemical incompatibility is the possible solubilization of toxic
 7 metals (Group 24), which is not a concern since the water (Group 106) from the sludge
 8 is fixed in the cemented product and would not be available for reaction.

33a. (24 x 106) The potential chemical incompatibility is the possible solubilization of toxic 9 metals (Group 24) by water (Group 106). This potential chemical incompatibility results 10 from the use of water in Ansulite™ fire extinguishing agents or Radiac™ wash solutions. 11 Metals in the test waste forms are present in trace quantities (T<1%) as large pieces 12 and not in powdered form. As a result, only minimal heat is expected to be formed. 13 34. (24 x 106) The potential incompatibility is the possible solubilization of toxic metals 14 (Group 24). The water (Group 106) is fixed the in the cemented product and would not 15 be available for reaction. 16

- 17 35. (24 x 107) The potential incompatibility is the possible reaction between toxic metals 18 and metal compounds (Group 24) and water reactive substances (Group 107). The 19 metals are present only in trace quantities (<1% by weight). Calcium oxide, the only 20 water reactive substance present, is a solid dispersed in the chloride salts. Based on 21 the immobilization of the calcium oxide in the salt, reactions are considered highly 22 unlikely.
- 2336.(24 x 107) The potential incompatibility is the possible reaction between toxic metals24and metal compounds (Group 24) and water reactive substances (Group 107). Calcium25oxide, the only water reactive substance present, is dispersed in chloride salts. Based26on the immobilization of the calcium oxide in the salts, reactions are considered highly27unlikely.
- 36a. (25 x 101) The potential chemical incompatibility is the reaction of nitrides (Group 25)
 with residual water present in the combustible materials (Group 101), resulting in
 formation of ammonia gas, heat generation, and possible ignition of the combustible
 materials. However, the combustible materials are polyethylene and polyvinyl chloride
 packaging materials which contain no residual water. Additionally, any reactive nitrides
 must be neutralized prior to shipment to WIPP. Therefore, the final waste form will
 contain compatible materials.

- 36aa. (25 x 106) The potential chemical incompatibility is the reaction of nitrides (Group 25) 1
 with water present in the combustible materials (101), resulting in formation of ammonia 2
 gas, heat generation, and possible ignition of the combustible materials. However, any 3
 reactive nitrides must be neutralized prior to shipment to WIPP. Therefore, the final 4
 waste form will contain compatible materials. 5
- 36b. (27 x 104) The potential incompatibility is the possible reaction between nitro 6 compounds (Group 27) and oxidizing agents (Group 107). Calcium oxide, the only 7 water reactive substance present, is dispersed in chloride salts. Reactive oxidizing 8 agents must be neutralized prior to shipment to WIPP. Based on the immobilization of 9 the calcium oxide in the salts and neutralization of oxidizing agents, reactions are 10 considered highly unlikely.
- 36c. (29 x 104) The potential incompatibility is the possible reaction between saturated 12 aliphatics (Group 29) and oxidizing agents (Group 104). However, reactive oxidizing 13 agents must be neutralized prior to shipment to WIPP. Therefore, the final waste form 14 will contain compatible materials.
- 36d. (101 x 102) The potential incompatibility is the possible oxidation reaction between 16 combustibles (Group 101) and explosives (102). However, explosives must be reacted 17 prior to shipment to WIPP. Therefore, the final waste form will contain compatible 18 materials.
- 37. (101 x 104) The potential incompatibility is the possible reaction between combustible 20 materials (Group 101) and oxidizing agents (Group 104). The oxidizing agents are 21 present only in trace quantities (<1%) and are reacted prior to loading in waste 22 containers. In addition, cement is added to absorb any residual liquid. Due to the 23 immobilization and prior reaction of the oxidizing agents, this content code is considered 24 to be chemically compatible. 25
- 38. (101 x 104) The potential incompatibility is the possible reaction between combustible 26 materials (Group 101) and oxidizing agents (Group 104). The oxidizing agents are 27 present only in trace quantities (<1%) and are fixed in the solidified product. Due to the 28 immobilization and prior reaction of the oxidizing agents, this content code is considered 29 to be chemically compatible. 30</p>
- 39. (101 x 107) The potential incompatibility is the possible reaction between combustible 31 and flammable materials (Group 101) and water reactive substances (Group 107). The 32 dominant combustible material in Group 101 is the polyethylene rigid drum liner. 33 Calcium oxide, the only water reactive substance present, is a solid dispersed in the 34 chloride salts. Based on the immobilization of the calcium oxide in the salt, reactions 35 are considered highly unlikely.

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40. (102 x 104) The potential incompatibility is the possible violent reaction between
 explosives (Group 102) and oxidizing agents (Group 104). However, both of these
 groups must be neutralized before shipment to WIPP. Therefore, the final waste form
 will contain compatible materials.

41. (104 x 107) The potential incompatibility is the possible violent reaction between
 oxidizing agents (Group 104) and water reactives (Group 107). However, both of these
 groups must be neutralized before shipment to WIPP. Therefore, the final waste form
 will contain compatible materials.



1

List of References for Appendix C1

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Nuclear Packaging, Inc. (NuPac), 1989, "Safety Analysis Report for the TRUPACT-II Shipping 5 Package," Revision 4, Appendix 2.10.12, Nuclear Packaging, Inc., Federal Way, Washington. 6

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TABLES

1

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
COMBUSTIBLE	IN W196	CAUSTICS X HALOGENATED ORGANICS	DxT	н	œ
COMBUSTIBLE	IN W198	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxT	GF H	8
COMBUSTIBLE	IN W198	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS	. DXT	S	8
COMBOONBLE	114 44 135	ТОХІС		3	3
COMBUSTIBLE	1N W198 "	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x	TxD	S	33a
CONDUSTIBLE	114 44 130	WATER & MIXTURES CONTAINING WATER		5	326
		(24 x 106)			
COMBUSTIBLE	IN W202	CAUSTICS X HALOGENATED ORGANICS	DxT	н	80
		(10 x 17)		-	
COMBUSTIBLE	in w202	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxT	GF H	80
		(10 x 23)			
COMBUSTIBLE	IN W202	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	00
		(10 x 24)			
COMBUSTIBLE	IN W202	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
COMBUSTIBLE	IN W205	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)	V	V	

x=Combined with

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(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E⊐explosive



WASTE MATRIX	WASTE STREAM	POTENTIAL CHEMICAL	CONCENTRATION	REACTION	
CODE GROUP	UNIQUE ID	COMPATIBILITY REACTION	REACTANTS(2)	CODE(b)	CODE NUMBER(¢
COMBUSTIBLE	in w205	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxT	GF H	00
COMBUSTIBLE	IN W205	(10 x 23) CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	s	00
COMBUSTIBLE	IN W205	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
COMBUSTIBLE	IN W250	(24 x 106) AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	TxD	S	12c
COMBUSTIBLE	IN W250	(7 x 24) CAUSTICS x METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	a _ ,
COMBUSTIBLE	IN W250	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxD	S	œ
COMBUSTIBLE	IN W250	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	s	33a
COMBUSTIBLE	IN W252	(24 x 106) AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	TxD	S	12c
COMBUSTIBLE	IN W252	(7 x 24) CAUSTICS x METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
		(10 × 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
COMBUSTIBLE	IN W252	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, D xD	S	œ
COMBUSTIBLE	IN W252	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	s	33a
COMBUSTIBLE	IN W254	(24 x 106) AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	ŤxD	S	12c
COMBUSTIBLE	"IN W254 "	(7 x 24) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	æ
COMBUSTIBLE	IN W254	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxD	S	œ
COMBUSTIBLE	IN W254	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x . WATER & MIXTURES CONTAINING WATER	D×D	S	3 3 a
COMBUSTIBLE	IN W256	(24 × 106) CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D×D	GF H	ω
COMBUSTIBLE	IN W256	(10 x 23) CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxM	S	. 00
COMBUSTIBLE	IN W256	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	MxD	S	33a

(24 x 106)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



	WASTE		CONCENTRATION		EXPLANATIC
WASTE MATRIX CODE GROUP	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(2)	REACTION CODE(b)	CODE NUMBER(c
COMBUSTIBLE	IN W325	CAUSTICS X METALS, OTHER ELEMENTAL. & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	80
		(10 x 23)			
COMBUSTIBLE	IN W327	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	E DXD	GF H	00
		(10 x 23) -			
COMBUSTIBLE	IN W330	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	80
		(10 x 23)			
COMBUSTIBLE	IN W330 -	CAUSTICS X METALS & METAL COMPOUNDS	, DXT	S	00
COMBUSTIBLE	IN W330	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33-
COMBUSTIBLE	IN W336	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, &		GF H	ω
		ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC		0	ũ
		(10 x 23)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING X CAUSTICS	T1 xD	н	00
		(1 x 10)			
COMBUSTIBLE	LA W00 4	ACIDS, MINERAL, NON-OXIDIZING × ETHERS	T1 x D	н	Caaa
		(1 x 14)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING X FLUORIDES, INORANIC	T1 x D	GT	Caaaa

(1 x 15)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1+10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF=filammable gas generation; G= nonfilammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANA [.] CODE NUMBER
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	GFHF	1
COMBUSTIBLE	LA W004	(1 x 23) ACIDS, MINERAL, NON-OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T1 xD	НG	З
COMBUSTIBLE	LA W004	(1 x 101) ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	≌ T1 x D	н	Зb
COMBUSTIBLE	- L A W004	(1 x 106) ACIDS, MINERAL, OXIDIZING x CAUSTICS	T1 x D	н	œ
COMBUSTIBLE	LA W004	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	T1 x D	HF	Зf
COMBUSTIBLE	LA W004	(2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T1 x D	ଙ୍ଗ	Зg
COMBUSTIBLE	LA W004	(2 x 15) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 xD	GFHF	4
COMBUSTIBLE	LA W004	(2 x 23) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E T1 x D	H F GT	9
COMBUSTIBLE	LA W004	(2 x 101) ACIDS. MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T1 × D	H	10a
		(2 x 106)		D	

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wŁ); T1=Trace (<0.1% by wŁ); T2≃Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wŁ); D=Dominant (>10% by wŁ)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
COMBUSTIBLE	LA W004	ACIDS, ORGANIC × CAUSTICS	TxD	н	œ
COMBUSTIBLE	LA W004	(3 x 10) ACIDS, ORGANIC x FLUORIDES, INORANIC	TXD	GT	11d
		(3 x 15)	A . A .		
COMBUSTIBLE	LA W004	CAUSTICS X HALOGENATED ORGANICS	DxT1	H	œ
COMBUSTIBLE	LA WOO4	(10 x 17)	D ~ T	.,	00
COMBUSTIBLE		CAUSTICS X KETONES	DxT	H	00
COMBUSTIBLE	LA W004	(10 x 19) CAUSTICS x METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS,	DxT2	GF H	¢
		VAPORS OR SPONGES (10 x 22)			
COMBUSTIBLE	LA:WOD4	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	15 00
COMBUSTIBLE	LA W004	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS	. DxT1	S	00
		TOXIC (10 x 24)			
COMBUSTIBLE	LA WOD4	CAUSTICS X NITRIDES	DxT1	υ	00
		(10 x 25)			
COMBUSTIBLE	LA W004	CAUSTICS X NITRO COMPOUNDS	DxT1	HE	00

(10 x 27)

x=Combined with

(a) Concentration of reactants; T=Trace (<1% by wŁ); T1=Trace (<0.1% by wŁ); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wŁ); D=Dominant (>10% by wŁ)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANATI CODE NUMBER(«
COMBUSTIBLE	LA W004	CAUSTICS X ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	DxT1	ΗE	80
COMBUSTIBLE	LA W004	(10 x 32) CAUSTICS x EXPLOSIVES	D x T2	HE .	œ
COMBUSTIBLE	LA W004	(10 x 102) - CAUSTICS x WATER REACTIVE SUBSTANCES	DxT	EXTREMELY	ω
COMBUSTIBLE	LA W004 ~	(10 x 107) ETHERS x OXIDIZING AGENTS, STRONG	D x T1	HF	17a
COMBUSTIBLE	LA W004	(14 x 104) ETHERS x WATER REACTIVE SUBSTANCES	DxT	EXTREMELY	17b
COMBUSTIBLE	LA W004	(14 x 107) FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	DxT	EXTREMELY	18
COMBUSTIBLE	LA W004	(15 x 107) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 × D	HF	20
COMBUSTIBLE	LA W004	(17 x 23) METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES x WATER & MIXTURES CONTAINING WATER	T2xD	GFH	28e
COMBUSTIBLE	LA W004	(22 x 106) METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG (23 x 104)	DxT1	HF	29

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (iow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF=flammable gas generation; G= nonflammable gas generation; G=monflammable gas generation; C=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
COMBUSTIBLE	LA W004	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	DxT	EXTREMELY	31
COMBUSTIBLE	LA W004	(23 x 107) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
COMBUSTIBLE	LA W004	(24 x 106) NITRIDES x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T1 x D	H GF F	362
COMBUSTIBLE	LÂ W004	(25 x 101) NITRIDES x WATER & MIXTURES CONTAINING WATER	T1 x D	GF H	36aa
COMBUSTIBLE	LA W004	(25 x 106) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	DxT2	ΗE	36
COMBUSTIBLE	LA W004	(101 x 102) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	DxT1	HFG	38
COMBUSTIBLE	LA W004	(101 x 104) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	DxT	EXTREMELY	39
COMBUSTIBLE	LL M001	(101 x 107) ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	TxD	н	œ
COMBUSTIBLE	LL, M001	(1 x 10) ACIDS, MINERAL, NON-OXIDIZING x ETHERS	TxD	н	Casa

(1 x 14)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=hoat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymenization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	LL M001	ACIDS, MINERAL, NON-OXIDIZING X FLUORIDES, INORANIC	Τ×D	GT	Oaaaa
COMBUSTIBLE	LL M001	(1 x 15) ACIDS, MINERAL, NON-OXIDIZING x METALS OTHER ELEMENTAL, & ALLOY, AS SHEETS. RODS, MOLDINGS, DROPS, ETC	, TxD	GFHF	1
COMBUSTIBLE	LL MOO1	(1 x 23) ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	ΤxD	НG	3
COMBUSTIBLE	LL. MOO1 .	(1 x 101) ACIDS, MINERAL, NON-OXIDIZING X WATER MIXTURES CONTAINING WATER	& TxD	н	ЗЬ
COMBUSTIBLE	LL M001	(1 x 106) ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	œ
COMBUSTIBLE	LL MOO1	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	TxD	HF	Эf
COMBUSTIBLE	LL MOO1	(2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	ΤxD	GT	Зg
COMBUSTIBLE	11 MOO1	(2 x 15) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	· 4
COMBUSTIBLE	LL MOD1	(2 x 23) ACIDS, MINERAL, OXIDIZING x COMBUSTIBL & FLAMMABLE MATERIALS, MISC	E TXD	H F GT	9
		(2 x 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by vt.); T1=Trace (<0.1% by vt.); T2=Trace (iow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by vt.); D=Dominant (>10% by vt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	I REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	LL M001	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	TxD	н	10
COMBUSTIBLE	LL M001	(2 x 106) ACIDS, ORGANIC x CAUSTICS	TxD	н.	8
COMBUSTIBLE	LL M001	(3 x 10) ACIDS, ORGANIC x FLUORIDES, INORANIC	TxD	GT	11d
COMBUSTIBLE	LL MO01	(3 x 15) - CAUSTICS x HALOGENATED ORGANICS	σxτ	н	8
COMBUSTIBLE		(10 x 17) CAUSTICS x KETONES	DxT	н	0
COMBUSTIBLE	LL M001	(10 x 19) Caustics x metals, alkali & alkaline Earth, elemental & alloys	T×O	GF H	œ
COMBUSTIBLE	LL MOO1	(10 x 21) CAUSTICS X METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES	DxT	GF H	ω
COMBUSTIBLE	LL_M001	(10 x 22) CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	15 00
COMBUSTIBLE	LL M001	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S. Dxt	S	œ

(10 x 24)

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Winor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=violent polymerization; E=explosive

ASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	i REACTION CODE(b)	EXPLANATI CODE NUMBER(
COMBUSTIBLE	LL M001	CAUSTICS x EXPLOSIVES	DXT	ΗE	8
		(10 x 102)			
COMBUSTIBLE	11 . MOO 1	ETHERS x ÖXIDIZING AGENTS, STRONG	DxT	HF	17a
		(14 x 104)			
COMBUSTIBLE	LL MOO1	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ŤxD	HF	26
		(17 x 23)			
COMBUSTIBLE	EL MOD1	METALS, ALKALI & ALKALINE EARTH, Elemental & Alloys x combustible & Flammable materials, MISC	TXD.	HGF	28b
		(21 x 101)			
COMBUSTIBLE	LL MO01	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	τ́xD	GF H	28d
		(21 × 106)			
COMBUSTIBLE	Ц , M00 1	METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES X WATER & MIXTURES CONTAINING WATER	ŤxD	GF H	28e
		(22 x 106)	DT		~
COMBUSTIBLE	LL M001	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC × OXIDIZING AGENTS, STRONG		HF	30
		(23 x 104)			
COMBUSTIBLE	LL M001	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TXD	S	· 33a 3 4
		(24 x 106)			
COMBUSTIBLE	LL, MOO1	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	DXT	HE	36d
		(101 × 102)			
x=Combined with (a) Concentration of re	actants: T=Trace ((<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low p =Minor (1-10% by wt.); D=Dominant (>10% by wt.)	pm range); T3=Trace (opm range);	

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire: GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	LL MOO1	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	DxT	HFG	38
		(101 x 104)			
COMBUSTIBLE	RL 14009	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	œ
		(10 x 23) -			
COMBUSTIBLE	RL MO10	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	œ
		(10 × 23)			
COMBUSTIBLE	RL MO10	CAUSTICS X METALS & METAL COMPOUNDS	, DXT	S	00
				•	
		(10 x 24)		_	
COMBUSTIBLE	RL M010	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	Τ×D	S	332
		(24 x 106)			
COMBUSTIBLE	RL M011	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M011	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXT	S	00
COMBUSTIBLE	RL M011	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x	TxD	S	33a
		WATER & MIXTURES CONTAINING WATER		÷	~~
		(24 x 106)			
COMBUSTIBLE	RL MO12	CAUSTICS X HALOGENATED ORGANICS	DXT	н	· 00

(10 x 17)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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POTENTIAL CHEMICAL COMPATIBILITY REACTION CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (17 x 23) CAUSTICS x ESTERS (10 x 13) CAUSTICS x HALOGENATED ORGANICS	OF REACTANTS(a) 2 DxD TxD DxT	REACTION CODE(b) GFH HF	CODE NUMBER(c 00
ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (17 x 23) CAUSTICS x ESTERS (10 x 13)	TxD	ΗF	20
HALOGENATED ORGANICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (17 × 23) CAUSTICS × ESTERS (10 × 13)			
OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (17 x 23) CAUSTICS x ESTERS (10 x 13)			
CAUSTICS X ESTERS	DxT	н	~
(10 x 13)	DxT	н	~
			00
~ CAUSTICS X HALOGENATED ORGANICS			
	DxT	н	00
(10×17)			
CAUSTICS X KETONES	DxT	н	œ
(10 x 19)			
CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DXD	GF H	00
(10 x 23)			
CAUSTICS X NITRO COMPOUNDS	DxT	HE	00
(10 x 27)			
HALOGENATED ORGANICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	20
(17 × 23)			
CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	00
(10 x 23)			
	(17 × 23) CAUSTICS × METALS, OTHER ELEMENTAL, A ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	(17 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & D x D ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23)	(17 × 23) CAUSTICS × METALS, OTHER ELEMENTAL, & D × D GF H ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= foxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	RL MO14	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXT	S	00
COMBUSTIBLE	RL MD14	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x	ТхD	S	33a
		WATER & MIXTURES CONTAINING WATER			
		(24 x 106)			
COMBUSTIBLE	RL M015	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M015 .	, CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXT	S	80
		(10 x 24)			
COMBUSTIBLE	RL M015	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33-
		(24 x 106)			
COMBUSTIBLE	RL M016	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
COMBUSTIBLE	RL M016	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	80
		(10 x 23)			
COMBUSTIBLE	RL M016	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S. DXT	S	œ
		(10 x 24)			
COMBUSTIBLE	RL MO16	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	20

(17 x 23)

x=Combined with

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(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of twic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; D=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATIO CODE NUMBER(c
COMBUSTIBLE	RL MO16	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)	·		
COMBUSTIBLE	RL M022	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23) .			
COMBUSTIBLE	RL M022	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	œ
		(10 x 24)			
COMBUSTIBLE	RL M022	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
	-	(24 x 106)			
COMBUSTIBLE	RL MO23	CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
		(10 x 23)			
FILTER	AW MO03	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
FILTER	AW MOO3	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	DxD	S	00
		(10 x 24)			
FILTER	AW MOC3	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 x 106)			
FILTER	IN W214	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
FILTER	IN W214	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	s	ω
		(10 x 24)	يى تىلەر بىرىرىيىن.	** +- * **	
FILTER	IN W214	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	s	33a
		(24 × 106)			
FILTER	RF W066	CAUSTICS X HALOGENATED ORGANICS	DxT1	н	00
		(10 x 17)			
FILTER	RF_ W066	_CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
FILTER	RF W066	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	HF	21
		(17 x 23)			
FILTER	RF W067	CAUSTICS X HALOGENATED ORGANICS	D x T1	н	00
		(10 × 17)			
FILTER	RF W067	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
FILTER	RF W067	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	Ť1 xD	HF	- 23
		(17 x 23)			
GRAPHITE	IN W272	CAUSTICS X HALOGENATED ORGANICS	ĎхТ	н	00

(10 x 17)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
GRAPHITE	IN W272	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	00
		(10 x 23)			
GRAPHITE	IN W272	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	24
		(17 x 23)			
GRAPHITE	IN W275	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
GRAPHITE	IN W275	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
GRAPHITE	IN W275	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	24
		(17 x 23)			
GRAPHITE	IN W276	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
GRAPHITE	IN W276	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	œ
		(10 x 23)			
GRAPHITE	IN W276	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	20
		(17 x 23)			
GRAPHITE	RF W060	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	. 00
		(10 x 23)			and the second s
x=Combined with (a) Concentration of rea		:1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pp Minor (1-10% by wL); D=Dominant (>10% by wL)		opm range);	

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF=flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATI CODE NUMBER(«
GRAPHITE	RF W060	CAUSTICS X METALS & METAL COMPOUNDS, TOXIC	DxM	S	œ
GRAPHITE	RF W060	(10 x 24) METALS & METAL COMPOUNDS,TOXIC x WATER & MIXTURES CONTAINING WATER	MxD	S	33a
HETEROGENEOL	IS AW WO20	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	S DxD	GF H	00
HETEROGENEOL	IS AW W020 .	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DxD	s	00
HETEROGENEOL	JS AW WO20	(10 × 24) METALS & METAL COMPOUNDS, TOXIC × WATER & MIXTURES CONTAINING WATER	DxD	S	3
HETEROGENEOU	is in M002	(24×106) CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	œ
HETEROGENEOL	js in Moc 2	(10 × 23) CAUSTICS × METALS & METAL COMPOUND: TOXIC	S, DxD	S	ω
HETEROGENEOU	js in Moo2	(10 × 24) METALS & METAL COMPOUNDS, TOXIC × WATER & MIXTURES CONTAINING WATER	DxD	S	33a
HETERÖGENEOL	JS IN W139	(24 × 106) CAUSTICS × METALS, OTHER ELEMENTAL, ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 × 23)	& DxD	GF H	œ
		(·-····			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: M=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATK CODE NUMBER(c
HETEROGENEOU	S IN W139	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, D×D	S	00
		(10 x 24)			
HETEROGENEOU	s in W139	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33 a
		(24 x 106)			
HETEROGENEOU	S IN W169	AMINES, ALIPHATIC & AROMATIC X HALOGENATED ORGANICS	DxT	НG	125
		(7 x 17)			
HETEROGENEOU	SIN W169 -	AMINES, ALIPHATIC & AROMATIC × METALS & METAL COMPOUNDS, TOXIC	DxT	S	12c
		(7 x 24)			
HETEROGENEOU	S IN W169	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
HETEROGENEOU	S IN W169	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	È DXD	gf H	00
		(10 x 23)			
HETEROGENEOU	S IN W169	CAUSTICS X METALS & METAL COMPOUNDS	S. DXT	S	œ
		(10 × 24)			
HETEROGENEOU	S IN W169	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ŤxD	HF	. 20
		(17 x 23)			
HETEROGENEOU	IS IN W169	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	T × D	S	33a
		(24 x 106)			
x=Combined with (a) Concentration of real	ictants: T=Trace (*	<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low pr	xm range); T3=Trace (<1 p	pm range);	

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= flammable gas generation; G= nonflammable gas generation; D= nonflammable

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
HETEROGENEOU	IS IN W170	CAUSTICS x ESTERS	DxT	н	. 00
HETEROGENEOU	IS IN W170	(10 x 13) CAUSTICS x KETONES	DxT	Ŋ,	00
		(10 x 19) -			
HETEROGENEOU	IS IN W170	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	8
		(10 x 23)			
HETEROGENEOU	IS I <u>N</u> W170	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	80
		(10 x 24)			
HETEROGENEOU	IS IN W170	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	S	33
		(24 x 106)			
HETEROGENEOU	IS IN W171	CAUSTICS × ESTERS	DxT	н	œ
		(1010)			
HETEROGENEOU	IS IN W171	(10 x 13) CAUSTICS x KETONES	DxT	н	00
		(10 x 19)			
HETEROGENEOU	2S IN W171	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
HETEROGENEOU	JS IN W171	CAUSTICS X METALS & METAL COMPOUNDS	, DxT	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive ł

WASTE WASTE MATRIX STREAM CODE GROUP UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANA1 CODE NUMBER
HETEROGENEOUS IN W171	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	s	33a
	(24 x 106)			
HETEROGENEOUS IN W172	CAUSTICS X HALOGENATED ORGANICS	DxT	Η .	00
	(10 x 17) ·			
HETEROGENEOUS IN W172	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
	(10 x <i>2</i> 3)			
HETEROGENEOUS IN W172 -	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TXD	HF	33a
,	(17 x 23)			
HETEROGENEOUS IN W186	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
	(10 x 17)			
HETEROGENEOUS IN W186	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	00
	(10 × 23)			
HETEROGENEOUS IN W186	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S DXT	S	00
	(10 x 24)			
HETEROGENEOUS IN W186	HALOGENATED ORGANICS X METALS. OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	20
	(17 x 23)			
HETEROGENEOUS IN W186	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
	(24 x 106)		M)	

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0,1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; f=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
HETEROGENEOU	S IN W189	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	E DxD	GF H	00
		(10 x 23)			
HETEROGENEOU	s in W189	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxD	S	00
		(10 x 24)			
HETEROGENEOU	s in W189	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	3 3 a
		(24 x 106)			
HETEROGENEOU	S IN W197 -	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
HETEROGENEOU	s in W197	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	i DxT	GF H	
		(10 x 23)			
HETEROGENEOU	s in W197	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	8
		(10 x 24)			
HETEROGENEOU	S IN W197	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
HETEROGENEOU	s in W203	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	A DxD	GF H	œ
		(10 x 23)			
HETEROGENEOU	S IN W203	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXT	s	00

(10 x 24)

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1±Trace (<0.1% by wL); T2≠Trace (kow ppm range); T3≠Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= nonflammable gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANAT CODE NUMBER(
HETEROGENEOUS	S IN W203	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	S	33a
		(24 x 106)			
HETEROGENEOUS	S IN W204	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	00
		(10 x 23)			
HETEROGENEOU	S IN W204	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXT	S	00
		(10 x 24)			
HETEROGENEOU	S-!N ₩204 ~	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	ΤxD	S	33a
		(24 x 106)			
HETEROGENEOU	S IN W225	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
HETEROGENEOU	s in w225	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DxD	S	00
		(10 x 24)			
HETEROGENEOU	S IN W225	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DXD	S	33a
		(24 x 106)			
HETEROGENEOU	S IN W259	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ð DxD	gf h	00
		(10 x 23)			
HETEROGENEOU	s in W259	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DXT	S	œ
x=Combined with		(10 x 24)			

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (iow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; GT=toxic gas generation; P=violent polymerization; E=explosive



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	i REACTION CODE(b)	EXPLANATi CODE NUMBER(c
HETEROGENEOU	IS IN W259	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	3 3a
HETEROGENEOU	IS IN W265	(24 x 106) CAUSTICS x HALOGENATED ORGANICS	DxT	н	80
HETEROGENEOU	IS IN W285	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	S DxD	GF H	ω
HETEROGENEOU	IS IN W265 -	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DXD	S	80
HETEROGENEOU	is in W285	(10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	2-
HETEROGENEOU	IS IN W285	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	S	33a
HETEROGENEOU	IS IN W269	(24 x 105) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	80
HETEROGENEOU	IS IN W271	(10 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	B D×D	GF H	· 00
HETERÓGENEOU	IS IN W271	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DxT	S	00

(10 x 24)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF=flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX STR	ISTE REAM IQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(«
HETEROGENEOUS IN		METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
HETEROGENEOUS IN		CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
HETEROGENEOUS IN		CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	80
		(10 × 24)			
HETEROGÉNEOUS IN		METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
HETEROGENEOUS IN	W283	ACIDS, MINERAL, NON-OXIDIZING X CAUSTICS	TxD	н	œ
		(1 x 10)			
HETEROGENEOUS IN	W283	ACIDS, MINERAL, NON-OXIDIZING X ETHERS	TxD	н	Da aa
		(1 x 14)			
HETEROGENEOUS IN		ACIDS, MINERAL, NON-OXIDIZING X FLUORIDES, INORANIC	Τ×D	GT	Caaaa
		(1 x 15)			
HETEROGENEOUS IN	W283	ACIDS, MINERAL, NON-OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	GF H F	[.] . 1
		(1 x 23)			
HETEROGENEOUS IN	W283	ACIDS, MINERAL, NON-OXIDIZING X METALS & METAL COMPOUNDS, TOXIC	ТхМ	s	2
x≂Combined with		(1 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(«
HETEROGENEOU	s in W283	ACIDS, MINERAL, NON-OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	ΤxD	НG	З
HETEROGENEOU	s in W283	(1 x 101) ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	& TxD	н	Зь
HETEROGENEOU	s in W/283	(1 x 106) ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	œ
HETEROGENEOU	SIN W 283	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	ΤxD	ΗF	Зf
HETEROGENEOU	s in w283	(2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	ଗ	3
HETEROGENEOU	SIN W283	(2 x 15) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	5
HETEROGENEOU	S IN W283	(2 x 23) ACIDS, MINERAL, OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	Τ×M	S	7
HETEROGENEOU	s in W283	(2 x 24) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E TxD	H F GT	8
HETEROGENEOU	S IN W283	(2 x 101) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	н	1 Qa

(2 x 106)

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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HETEROGENEOUS IN W2283 CAUSTICS X HALOGENATED ORGANICS D XT H 00 Interest (10 x 17) CAUSTICS X ISOCYANATES D XT H P G 00 Interest (10 x 18) CAUSTICS X ISOCYANATES D XT H P G 00 Interest (10 x 18) CAUSTICS X ISOCYANATES D XD GF H 00 Interest (10 x 18) CAUSTICS X INTERALS, OTHER ELEMENTAL, & D XD GF H 00 Interest (10 x 23) CAUSTICS X INTERALS, OTHER ELEMENTAL, & D XD GF H 00 Interest (10 x 24) CAUSTICS X INTERALS & METAL COMPOUNDS, D XM S 00 Interest (10 x 24) CAUSTICS X INTERALS & METAL COMPOUNDS, D XM S 00 Interest (10 x 24) C(14 x 104) HALOGENATED ORGANICES X METALS, STRONG D XT H F 17a Interest (11 x 23) CAUSTICS X METALS, ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC T XD H F 24 Interest (11 x 23) CONTAINING WATER T XD H G 28aa Interest (11 x 104) METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC D XT H F 24 Interest (11 x 105) METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MO	WASTE WASTE MATRIX STREAM CODE GROUP UNIQUE I	POTENTIAL CHEMICAL D COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER
HETEROGENEOUS IN W283 CAUSTICS X ISOCYANATES D XT H P G 00 Image: Metric S X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, D XD GF H 00 METEROGENEOUS IN W283 CAUSTICS X METALS, OTHER ELEMENTAL, & D XD GF H 00 METEROGENEOUS IN W283 CAUSTICS X METALS & METAL COMPOUNDS, D XM S 00 METEROGENEOUS IN W283 CAUSTICS X METALS & METAL COMPOUNDS, D XM S 00 METEROGENEOUS IN W283 (10 X 24) D XT H F 17a METEROGENEOUS IN W283 (14 x 104) T XD H F 17a METEROGENEOUS IN W283 (14 x 104) T XD H F 24 OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC T XD H G 25aa (17 x 23) ISOCYANATES X WATER & MIXTURES T XD H G 25aa METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC X D XT H F 30 METEROGENEOUS IN W283 METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, NOTHER SHEETS, RODS, MOLDINGS, DROPS, ETC X D XT H F 30 METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC X D XT H F 30 METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC X D XT H F 30 METALS OTHER E	HETEROGENEOUS IN W283	CAUSTICS X HALOGENATED ORGANICS	DxT	H	œ
HETEROGENEOUS IN W283 CAUSTICS X METALS, OTHER ELEMENTAL, & DXD GFH 00 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS X METALS & METAL COMPOUNDS, D X M S 00 HETEROGENEOUS IN W283 CAUSTICS X METALS & METAL COMPOUNDS, D X M S 00 (10 x 24) (10 x 24) DXT HF 17a HETEROGENEOUS IN W283 ETHERS X OXIDIZING AGENTS, STRONG D X T HF 17a HETEROGENEOUS IN W283 (14 x 104) T X D HF 24 HETEROGENEOUS IN W283 (14 x 104) T X D HF 24 HETEROGENEOUS IN W283 (14 x 104) T X D HF 24 HETEROGENEOUS IN W283 (17 x 23) T X D HF 24 HETEROGENEOUS IN W283 (18 x 105) T X D H G 23aa (18 x 105) METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC X OXIDIZING AGENTS, STRONG D X T H F 30 HETEROGENEOUS IN W283 (18 x 105) METALS, CONTAINING WATER D X T H F 30 HETEROGENEOUS IN W283 (18 x 105) METALS, STRONG D X T H F 30 </td <td>HETEROGENEOUS IN W283</td> <td>• •</td> <td>DxT</td> <td>HPG</td> <td>œ</td>	HETEROGENEOUS IN W283	• •	DxT	HPG	œ
HETEROGENEOUS -IN W283 CAUSTICS X METALS & METAL COMPOUNDS, D X M S CO HETEROGENEOUS IN W283 (10 x 24) ETHERS x OXIDIZING AGENTS, STRONG D x T H F 17a HETEROGENEOUS IN W283 (14 x 104) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC T x D H F 24 HETEROGENEOUS IN W283 (17 x 23) ISOCYANATES X WATER & MIXTURES T x D H G 28aa HETEROGENEOUS IN W283 (18 x 105) SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG D x T H F 30 HETEROGENEOUS IN W283 (18 x 105) SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG D x T H F 30 HETEROGENEOUS IN W283 (18 x 105) WETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG D x T H F 30 HETEROGENEOUS IN W283 METALS, OTHER ELEMENTAL, & ALLOY, AS WATER & MIXTURES CONTAINING WATER M x D S 33a	HETEROGENEOUS IN W283	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS,	L DxD	GF H	00
HETEROGENEOUS IN W283ETHERS x OXIDIZING AGENTS, STRONGD x TH F17aHETEROGENEOUS IN W283(14 x 104) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETCT x DH F24HETEROGENEOUS IN W283(17 x 23) ISOCYANATES x WATER & MIXTURES CONTAINING WATERT x DH G25aaHETEROGENEOUS IN W283(18 x 106) SHEETS, RODS, MOLDINGS, DROPS, ETC xT x DH G25aaHETEROGENEOUS IN W283(18 x 106) SHEETS, RODS, MOLDINGS, DROPS, ETC xD x TH F30HETEROGENEOUS IN W283(23 x 104) WATER & MIXTURES CONTAINING WATERM x DS33a	HETEROGENEOUS -IN W283	CAUSTICS X METALS & METAL COMPOUNDS	, D×M	S	00
HETEROGENEOUS IN W283HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETCT x DH F24HETEROGENEOUS IN W283(17 × 23) ISOCYANATES X WATER & MIXTUREST x DH G28aaHETEROGENEOUS IN W283(18 × 106) SHEETS, RODS, MOLDINGS, DROPS, ETC x CONTAINING WATERT x DH G28aaHETEROGENEOUS IN W283(18 × 106) SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONGD x TH F30(23 × 104) HETALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATERM x DS33a	HETEROGENEOUS IN W283		DxT	HF	17a
HETEROGENEOUS IN W283 ISOCYANATES x WATER & MIXTURES CONTAINING WATER T x D H G 28aa (18 x 106) (18 x 106) (18 x 106) D x T H F 30 HETEROGENEOUS IN W283 METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG D x T H F 30 (23 x 104) (23 x 104) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER M x D S 33a	HETEROGENEOUS IN W283	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS,	σ×τ	HF	24
HETEROGENEOUS IN W283 METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG D x T H F 30 (23 x 104) (23 x 104) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER M x D S 33a	HETEROGENEOUS IN W283	ISOCYANATES X WATER & MIXTURES	TxD	НG	28aa
HETEROGENEOUS IN W283 METALS & METAL COMPOUNDS, TOXIC X M x D S 33a WATER & MIXTURES CONTAINING WATER	HETEROGENEOUS IN W283	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x	DxT	HF	30
(24 × 106)	HETEROGENEOUS IN W283	METALS & METAL COMPOUNDS, TOXIC ×	MxD	S	33a
しん おうしん しんしょう しんしょ しんしょ		(24 × 106)			

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation: S= solubilization of twic substances; F=fire: GF=flammable gas generation; G= nonflammable gas generation GT=twic gas generation; P=violent polymerization; E=explosive

TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
HETEROGENEOU	S IN W283	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC X OXIDIZING AGENTS, STRONG	DxT	HFG	37
HETEROGENEOU	S IN W285	(101 x 104) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	co
HETEROGENEOU	IS IN W285	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	, DxD	S	00
HETEROGENEOU	IS IN W285	(10 x 24) - METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	S	33a
HETEROGENEOU	IS IN W/289	(24 x 106) CAUSTICS x HALOGENATED ORGANICS	Dxĭ	н	or i
HETEROGENEOU	IS IN W/289	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	ω
HETEROGENEOU	IS IN W/289	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT	S	ω
HETEROGENEOU	IS IN W289	(10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	20
HETEROGENEOU	is in W289	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	s	33a

(24 x 106)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by w£); T1=Trace (<0.1% by w£); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by w£); D=Dominant (>10% by w£)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE WASTE MATRIX STREAM CODE GROUP UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANAT CODE NUMBER(
HETEROGENEOUS IN W291	CAUSTICS X ESTERS	` DxT	н	00
HETEROGENEOUS IN W291	(10 x 13) CAUSTICS x KETONES	DxT	н	œ
HETEROGENEOUS IN W291	(10 x 19) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
HETEROGENEOUS -IN W302	(10 x 23) CAUSTICS x HALOGENATED ORGANICS	D×T	н	α
HETEROGENEOUS IN W302	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	ω
HETEROGENEOUS IN W302	(10 x 23) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	20
HETEROGENEOUS IN W323	(17 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
HETEROGENEOUS IN W323	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT	S	œ
HETEROGENEOUS IN W323	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	Τ×D	S	33a
	(24 x 106)	1		b .

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE CONCENTRATION EXPLANAT WASTE MATRIX STREAM OF POTENTIAL CHEMICAL REACTION CODE UNIQUE ID REACTANTS(a) CODE GROUP COMPATIBILITY REACTION CODE(b) NUMBER(HETEROGENEOUS IN W329 CAUSTICS X METALS, OTHER ELEMENTAL, & GF H ω DXD ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10×23) HETEROGENEOUS IN W334 CAUSTICS X METALS, OTHER ELEMENTAL, & DxD GF H 00 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10×23) HETEROGENEOUS IN W345 CAUSTICS X METALS, OTHER ELEMENTAL, & DxD GF H m ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) HETEROGENEOUS IN W351 CAUSTICS X METALS, OTHER ELEMENTAL, & GF H DxD 00 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) HETEROGENEOUS INW2698 CAUSTICS X METALS, OTHER ELEMENTAL, & DXD GF H ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10×23) HETEROGENEOUS NT WOOL ACIDS, MINERAL, NON-OXIDIZING x **M**×T н Oa ALCOHOLS & GLYCOLS (1×4) HETEROGENEOUS NT WOOI ACIDS, MINERAL, NON-OXIDIZING x MXD н 0aa 00 CAUSTICS (1×10) HETEROGENEOUS NT WOOI ACIDS, MINERAL, NON-OXIDIZING x ETHERS MxD н Oasa (1 x 14) HETEROGENEOUS NT WOOT ACIDS, MINERAL, NON-OXIDIZING x MxD GT Oaaaa FLUORIDES, INORANIC

(1 x 15)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range);

M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonfismmable gas generation; GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE WASTE MATRIX STREAM CODE GROUP UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
HETEROGENEOUS NT WOON	ACIDS, MINERAL, NON-OXIDIZING X HALOGENATED ORGANICS	M×T	HGT	Оь
HETEROGENEOUS NT WOON	(1 x 17) ACIDS, MINERAL, NON-OXIDIZING x KETONES	M×T	н	Свь
HETEROGENEOUS NT WOOI	(1 x 19) ACIDS, MINERAL, NON-OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	MxT	s	2
HETEROGENEOUS NT WOOI	(1 x 24) ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	M×T	HG	3
HETEROGENEOUS NT WOOI	(1 × 101) ACIDS, MINERAL, NON-OXIDIZING × EXPLOSIVES	MxT	HE	3a
HETEROGENEOUS NT W001	(1 x 102) ACIDS, MINERAL, NON-OXIDIZING x OXIDIZING AGENTS, STRONG	MxT	H GT	322
HETEROGENEOUS NT WOOT	(1 × 104) ACIDS, MINERAL, NON-OXIDIZING × WATER MIXTURES CONTAINING WATER	& MxD	н	3 b
HETEROGENEOUS NT WOOI	(1 × 106) ACIDS, MINERAL, OXIDIZING × ACIDS, ORGANIC	MxT	GH	Зс
HETEROGENEOUS NT WOOT	(2 x 3) ACIDS, MINERAL, OXIDIZING x ALCOHOLS & GLYCOLS	M x T	HF	3d
	(2 × 4)			
x=Combined with	(<1% by w£): T1=Trace (<0.1% by w£): T2=Trace (kow oc			م مرید است. استروی افتا عابلامیو

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER							
WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPERIMENTIC CODE NUMBER(c)		
HETEROGENEOU	S NT W001	ACIDS, MINERAL, OXIDIZING x CAUSTICS	MxD	H	. 3e 00		
HETEROGENEOU	IS NT W001	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	M×D	HF	Зf		
HETEROGENEOU	S NT W001	(2 × 14) ACIDS, MINERAL, OXIDIZING × FLUORIDES, INORANIC	MxD	GT	Зg		
HETEROGENEOU	S NT WOO1	(2 × 15) ACIDS, MINERAL, OXIDIZING × HALOGENATED ORGANICS	M×T	H F GT	3h		
HETEROGENEOU	S NT WOO1	(2 x 17) ACIDS, MINERAL, OXIDIZING x KETONES	MxT	HF	3		
HETEROGENEOU	S NT WOO1	(2 × 19) ACIDS, MINERAL, OXIDIZING × METALS & METAL COMPOUNDS, TOXIC	MxT	S	67		
HETEROGENEOU	S NT W001	(2 x 24) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E MxT	H F GT	89		
HETEROGENEOU	S NT W001	(2 x 101) ACIDS, MINERAL, OXIDIZING x EXPLOSIVES	MxT	HE	· 9a		
HETEROGENEOU	S NT W001	(2 x 102) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	MxD	н	10a		

(2 x 106)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive



WASTE WASTE MATRIX STREAM CODE GROUP UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(1
HETEROGENEOUS NT WOOT	ACIDS, ORGANIC x CAUSTICS	TxD	н	115 00
HETEROGENEOUS NT WOO1	(3 x 10) ACIDS, ORGANIC x FLUORIDES, INORANIC	ŤxD	GT .	114
		07		10 m
HETEROGENEOUS NT WOOI	CAUSTICS X HALOGENATED ORGANICS	DxT	н	13 00
HETEROGENEOUS NT W001	(10 x 17) CAUSTICS x KETONES	DxT	н	13a 0 0
HETEROGENEOUS NT WOOT	(10 x 19) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DXT	S	16a OC
	(10 × 24)			
HETEROGENEOUS NT WOOI	CAUSTICS X EXPLOSIVES	DKT	HE	16:00
HETEROGENEOUS NT WOOT	(10 x 102) ETHERS x OXIDIZING AGENTS, STRONG	DxT	HF	17 a
HEIEROGENEOUS IN WUDI			n F	1761
	(14 x 104)		× _	
HETEROGENEOUS NT WOOI	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER (24 x 106)	TxD	S	· 33 33a
HETEROGENEOUS NT WOON	ACIDS, MINERAL, NON-OXIDIZING X METALS OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	, Тх М	GFHF	1
	(1 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymenzation; E=explosive

TABLE C1-1

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

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	WASTE		CONCENTRATION		EXPLANATI
WASTE MATRIX CODE GROUP	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(2)	REACTION CODE(b)	CODE NUMBER(c
HETEROGENEOUS	5 NT W001	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ТхМ	GF H F	45
	,	(2 x 23)			
HETEROGENEOUS	S NT W001	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	⊤хМ	GF H	15 00
		(10 x 23)			
HETEROGENEOUS	5 NT W001	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	Τ×Μ	ΗF	20 24
		(17 x 23)			
HETEROGENEOUS	5 NT W001	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS × COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	ŤχD	HGF	286
		(21 x 101)			
HETEROGENEOUS	5 NT W001	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	MxT	HF	3
		(23 x 104)			
HETEROGENEOUS	5 NT W001	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC × EXPLOSIVES	DxT	HE	36d
		(101 x 102)			
HETEROGENEOUS	S NT W001	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC X OXIDIZING AGENTS, STRONG	DxT	HFG	36
	*	(10)			
HETEROGENEOUS	S OR W040	(101 × 104) CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	80
		(10 x 23)			
HETEROGENEOUS	OR W040	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	ω

(10 x 24)

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x=Combined with

(a) Concentration of reactanta: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE IASTE MATRIX STREAM CODE GROUP UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
HETEROGENEOUS OR WO40	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	Τ×D	S	33a
	(24 x 106)			
HETEROGENEOUS OR W044	ACIDS, MINERAL, NON-OXIDIZING X CAUSTICS	ΤxD	н	00
	(1 x 10)			
HETEROGENEOUS OR W044	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	TxD	н	Oaaa
	(1 x 14)			
HETEROGENEOUS OR W044 .	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	TXD	GT	Oaaaa
	(1 x 15)			
HETEROGENEOUS OR W044	ACIDS, MINERAL, NON-OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	1
	(1 × 23)			
HETEROGENEOUS OR W044	ACIDS, MINERAL, NON-OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	TXD	HG	3
	(1 × 101)			
HETEROGENEOUS OR W044	ACIDS, MINERAL, NON-OXIDIZING X WATER MIXTURES CONTAINING WATER	& TxD	н	3b
	(1 × 1 06)			
HETEROGENEOUS OR W044	ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	00
	(2 x 10)			
HETEROGENEOUS OR W044	ACIDS, MINERAL, OXIDIZING x ETHERS	TxD	HF	31
∗=Combined with	(2 x 14)			

⁽b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION	EXPLANATI CODE NUMBER(c
HETEROGENEOU	IS OR W044	ACIDS, MINERAL, OXIDIZING × FLUORIDES, INORANIC	ΤxD	GT	3g
HETEROGENEOU	IS OR W044	(2 x 15) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	5
HETEROGENEOU	IS OR W044	(2 x 23) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E TxD	H F GT	8
HETEROGENEOU	IS OR W044 -	(2 x 101) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	TxD	н	10a
HETEROGENEOU	IS OR W044	(2 x 106) ACIDS, ORGANIC x CAUSTICS	T2xD	н	8
HETEROGENEOU	IS OR W044	(3 x 10) ACIDS, ORGANIC x FLUORIDES, INORANIC	T2xD	GT	11d
HETEROGENEOU	IS OR W044	(3 x 15) AZO COMPOUNDS, DIAZO COMPOUNDS, & HYDRAZINES x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (8 x 23)	T2xD	HFG	12e
HETEROGENEOU	IS OR W044	(0 x 25) AZO COMPOUNDS, DIAZO COMPOUNDS, & HYDRAZINES × WATER & MIXTURES CONTAINING WATER	T2xD	G	121
HETEROGENEOU	IS OR W044	(8 x 106) CAUSTICS x ESTERS	DxT2	н	· 00

(10 x 13)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

VASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION	EXPLANAT CODE NUMBER(
HETEROGENEOU	s or wo44	CAUSTICS X HALOGENATED ORGANICS	DxT2	н	· 00
		(10 x 17)			
HETEROGENEOU	s or w044	CAUSTICS X KETONES	DxT2	Η	00
		(10 x 19)			
HETEROGENEOU	s or W044	CAUSTICS X METALS, OTHER ELEMENTAL, & Alloy, as sheets, rods, moldings, drops, etc	DXD	gf H	15 00
		(10 x 23)			
HETEROGENEOU	S OR WD44	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	00
		(10 x 24)			
HETEROGENEOU	S_OR W044	CAUSTICS × ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	DxT1	HE	œ
		(10 × 32)			
HETEROGENEOU	s or W044	ETHERS X OXIDIZING AGENTS, STRONG	DxT1	HF	17a
		(14 x 104)			
HETEROGENEOU	s or w044	HALOGENATED ORGANICS X METALS. OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2xD	HF	20 22
		(17 × 23)			
HETEROGENEOU	s or w044	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	DxT1	HF	29
		(23 x 104)			
HETEROGENEOU	S OR W044	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
					. , ,
x=Combined with				and the second sec	the state of the s

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
HETEROGENEOU	S OR W044	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T1	HFG	38
HETEROGENEOU	s or w045	(101 x 104) CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	80
HETEROGENEOU	S OR W045	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT	S	80
HETEROGENEOU	SORW045.	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
HETEROGENEOU	s or W047	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	8
HETEROGENEOU	s or W047	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT	S	80
HETEROGENEOU	S OR W047	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
HETEROGENEOU	s RF M002	(24 x 105) CAUSTICS x HALOGENATED ORGANICS	DxT	н	80
HETEROGENEOU	s RF M002	(10 x 17) CAUSTICS x KETONES	DxT	н	00

(10 x 19)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; P=violent polymerization; E=explosive

(c) See text

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TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



WASTE			CONCENTRATION		EXPLANAT	
WASTE MATRIX CODE GROUP	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(a)	REACTION CODE(b)	CODE NUMBER(
HETEROGENEOU	SRFM002	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	80	
		(10 x 23)				
HETEROGENEOU	s RF M002	CAUSTICS X NITRO COMPOUNDS	DxT	HE	00	
		(10 x 27)				
HETEROGENEOU	SRFM002	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	ΗF	20	
		(17 x 23)				
HETEROGENEOU	'S -RF W008 ~	CAUSTICS X HALOGENATED ORGANICS	DxT	н	ω	
		(10 x 17)				
HETEROGENEOU	S RF W008	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	00	
		(10 x 23)				
HETEROGENEOU	s RF W008	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	23	
		(17 x 23)				
HETEROGENEOU	IS RF W012	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00 `	
		(10 × 17)				
HETEROGENEOU	IS RF W012	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GFH	00	
		(10 x 23)				
HETEROGENEOU	IS RF W012	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	20	

(17 x 23)

x=Combined with

(a) Concentration of reactants: T≃Trace (<1% by wL); T1≃Trace (<0.1% by wL); T2≃Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D≃Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
HETEROGENEOU	S RF W036	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
HETEROGENEOU	SRFW036	(10 × 17) CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
HETEROGENEOU	S RF W036	(10 x 23) CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	00
HETEROGENEOU	s RF W036 -	(10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	24
HETEROGENEOL	IS RF W036	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	s	د آ ر
HETEROGENEOL	IS RL MOO4	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
HETEROGENEOL	is RL MOO6	(10 × 23) CAUSTICS × ESTERS	DxT	н	00
HETEROGENEOL	is rl Moo6	(10 x 13) CAUSTICS x HALOGENATED ORGANICS	ĎхТ	н	· 00
HETEROGENEOL	IS RL MOO6	(10 × 17) CAUSTICS × KETONES	ÖxT	н	œ

(10 x 19)

x=Combined with

(a) Concentration of reactanta; T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fre; GF=flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANA' CODE NUMBER
HETEROGENEOUS	s RL M006	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	8
		(10 x 23)			
HETEROGENEOUS	5 RL M006	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	ΗF	20
		(17 x 23)			-
HETEROGENEOUS	6 RL M031	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	00
		(10 x 23)			
HETEROGENEOUS	S RL M201	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	a DxD	GF H	8
		(10 x 23)			
HETEROGENEOUS	5 SA W134	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	2 DxD	GF H	8
		(10 x 23)			
HETEROGENEOUS	S SR W026	CAUSTICS X HALOGENATED ORGANICS	ÐxT	н	8
		(10 x 17)			
HETEROGENEOUS	5 SR W026	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	œ
		(10 x 23)			
HETEROGENEOUS	5 SR W026	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DxT	S	. 00
		(10 x 24)			
HETEROGENEOUS	s SR W026	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	ΗF	. 20
		(17 x 23)			
x=Combined with (a) Concentration of read	tants: T=Trace (*	<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (iow pp	m range); T3=Trace (<1)	prin range);	

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (iow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOU	s SR W026	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
HETEROGENEOU	s SR W027	CAUSTICS × ESTERS	DxT	н	80
		(10 x 13)			
HETEROGENEOU	S SR W027	CAUSTICS × HALOGENATED ORGANICS	DxT	н	00
HETEROGENEOU	C CD 14007	(10 x 17) CAUSTICS x KETONES	DxT		~
HEIEROGENEOU	S SR WUZI	CAUSTICS X RELONES	DXI	н	00
HETEROGENEOU	C SR 14/007	(10 x 19) CAUSTICS × METALS, OTHER ELEMENTAL, 8		GF H	, <u> </u>
HEI SKOGENEUU	5 SR WU21	ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC		Gr H	1
		(10 x 23)	- -		
HETEROGENEOU	S SR W027	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	5, DxT	S	80
HETEROGENEOU	S SE 14/097	(10 x 24) CAUSTICS X NITRO COMPOUNDS	DxT	ue	~
HEIERUGENEUU	5 5R WUZI	CAUSTICS X NITRO COMPOUNDS	DXI	HE	00
		(10x27)			
HETEROGENEOU	s SR WO27	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TXD	HF	20
		(17 x 23)			
HETEROGENEOU	s SR W027	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a

(24 x 106)

x=Combined with

(a) Concentration of reactants: T⇒Trace (<1% by wL); T1≠Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= solubilization; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION	EXPLANATI CODE NUMBER((
INORGANIC NON-METAL	IN W161	CAUSTICS X METALS, OTHER ELEMENTAL. & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	axd 2	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W161	CAUSTICS X METALS & METAL COMPOUNDS, TOXIC	, DxT	S	00
		(10 x 24)			
INORGANIC NON-METAL	IN W161	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
INORGANIC NON-METAL	i n W230 - 4	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
INORGANIC NON-METAL	IN W230	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	A DxD	GF H	00
		(10 × 23)			
INORGANIC NON-METAL	IN W230	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	24
		(17 x 23)			
INORGANIC NON-METAL	IN W240	CAUSTICS X HALOGENATED ORGANICS	D×T3	н	ω
		(10 x 17)			
INORGANIC NON-METAL	IN W240	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D X D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W240	CAUSTICS X METALS & METAL COMPOUNDS	S. DXD	S	00
		(10 x 24)			
x=Combined with (a) Concentration of rea		(<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppr =#linor (1-10% by wL): D=Dominant (>10% by wL)	m rangé); T3=Trace (<1 ;	ppm range);	

M=Minor (1-10% by wt.); D=Dominant (>10% by wt.);

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= fiammable gas generation; G= nonfiammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION	EXPLANATI: CODE NUMBER(c
INORGANIC NON-METAL	IN W240	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3 x D	HF	24
		(17 x 23)			
INORGANIC Non-Metal	IN W240	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	D×D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	IN W243	ACIDS, MINERAL, OXIDIZING x CAUSTICS	Τ×D	н	00
		(2 x 10)			
INORGANIC NON-METAL	IN W243	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TXD	GFHF	5
		(2 x 23)			
INORGANIC Non-Metal	IN W243	ACIDS, MINERAL, OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISCELLANEOUS		H F GT	8
		(2 x 101)			
INORGANIC NON-METAL	IN•₩243	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	TxD	H	1 0a
		(2 x 106)			
INORGANIC NON-METAL	IN W243	CAUSTICS X ESTERS	DXT	н	80
		(10 x 13)			
INORGANIC NON-METAL	IN W243	CAUSTICS X HALOGENATED ORGANICS	DxT	Н	00
		(10 x 17)			
INORGANIC NON-METAL	IN W243	CAUSTICS × KETONES	DXT	н	œ
		(10 x 19)			
	-				
x=Combined with					<u> </u>
		(<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppr =Minor (1-10% by wt.); D=Dominant (>10% by wt.)	m range); T3=Trace (<1 p	pm range);	

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=suplosive (c) See text

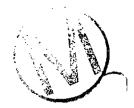
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TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

	WASTE		CONCENTRATION		EXPLANA1	
WASTE MATRIX CODE GROUP	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(a)	REACTION CODE(b)	CODE NUMBER	
INORGANIC NON-METAL	IN W243	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	00	
		(10 x 23)				
INORGANIC NON-METAL	IN W243	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DXT	S ्	œ	
		(10 x 24)				
INORGANIC NON-METAL	IN W243	CAUSTICS X NITRO COMPOUNDS	DxŤ	HE	00	
		(10 x 27)				
INORGANIC NON-METAL	-IN W243	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	ΗF	24	
		(17 x 23)				
INORGANIC NON-METAL	IN W243	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	S	33 a	
		(24 x 106)				
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x CAUSTICS	ΤxD	н	8	
		(2 x 10)				
INORGANIC NON-METAL	in W245	ACIDS, MINERAL, OXIDIZING X ETHERS	TxD	HF	31	
		(2 x 14)				
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	GŤ	Зg	
		(2 x 15)				
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	5	
		(2 x 23)				
x=Combined with (a) Concentration of rea		<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pr #Minor (1-10% by wL); D=Dominant (>10% by wL)	om range); T3=Trace (44	ppm range);		

M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF=fiammable gas generation; G= nonflammable gas generation; G=toxic gas generation; P=violent polymerization; E=explosive



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
INORGANIC NON-METAL	in w245	ACIDS, MINERAL, OXIDIZING x COMBUSTIBL & FLAMMABLE MATERIALS, MISC	Ë TxD	H F GT	8
INORGANIC NON-METAL	IN W245	(2 x 101) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	TxD	н	10a
INORGANIC NON-METAL	IN W245	(2 x 106) CAUSTICS x HALOGENATED ORGANICS	DxT	н	œ
INORGANIC NON-METAL	IN W245	(10 x 17) - CAUSTICS x METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DOOPS, ETC	a DxD	GF H	œ
INORGANIC NON-METAL	IN W245	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	5, D×T	S	or i
INORGANIC NON-METAL	IN W245	(10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	24
INORGANIC NON-METAL	IN W245	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
inorganic Non-Metal	IN W247	(24 x 106) ACIDS, MINERAL, OXIDIZING x CAUSTICS	ΤxD	н	00
INORGANIC NON-METAL	IN W247	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	TxD	HF	Зf

(2 x 14)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= fiammable gas generation; G= nonflammable gas generation; G=nonflammable gas generation; C=nonflammable gas generation; C=nonflam

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING × FLUORIDES, INORANIC	ΤxD	GT	3g
		(2 x 15)			
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	ΞΤχD	H F GT	8
		(2 x 101)			
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	ΤxD	н	10a
		(2 x 106)			
INORGANIC NON-METAL	- IN W247 -	CAUSTICS X HALOGENATED ORGANICS	DxT	н	80
		(10 x 17)			
INORGANIC NON-METAL	IN W247	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxT	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W247	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	8
		(10 x 24)			
INORGANIC NON-METAL	IN W247	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	S	3 3 a
		(24 x 106)			
INORGANIC NON-METAL	IN W249	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	80
		(10 x 23)			
INORGANIC NON-METAL	IN W249	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	s	00
		(10 x 24)			
x=Combined with (a) Concentration of rea	ctants: T=Trace (*	<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppr	n range); T3=Trace (<1 g	pm range);	

(a) Concentration of reactants: T=Trace (<1% by w£); T1=Trace (<0.1% by w£); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by w£); D=Dominant (>10% by w£)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
INORGANIC NON-METAL	IN W249	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	S	33a
		(24 x 106)			
INORGANIC NON-METAL	MD MOO1	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W026	CAUSTICS X HALOGENATED ORGANICS	DxT	н	œ
		(10 x 17)			
INORGANIC NON-METAL	rf W026 -	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	80
		(10 x 23)			
INORGANIC Non-Metal	RF W026	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	(-
		(17 x 23)			
INORGANIC NON-METAL	RF W032	CAUSTICS X HALOGENATED ORGANICS	D x T3	н	00
		(10 x 17)			
INORGANIC NON-METAL	RF W032	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D×D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W032	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXD	S	° 00
		(10 x 24)			
INORGANIC NON-METAL	RF W032	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3 x D	HF	[′] 22

(17 x 23)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANATI CODE NUMBER(1
INORGANIC NON-METAL	RF W032	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 × 106)			
INORGANIC NON -ME TAL	RF W052	CAUSTICS X HALOGENATED ORGANICS	Dx13	н	00
		(10 x 17)			
INORGANIC NON-METAL	RF W052	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
INORGANIC N ON-MET AL	RF WOS2 ·	CAUSTICS X METALS & METAL COMPOUNDS. TOXIC	, DxD	S	00
		(10 x 24)			
INORGANIC NON-METAL	<u>.</u> RF W052	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3xD	HF	22
		(17 x 23)			
INORGANIC NON-METAL	RF WOS2	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 x 106)			
INORGANIC NON-METAL	RF W056	CAUSTICS X HALOGENATED ORGANICS	DxT3	н	œ
		(10 x 17)			
INORGANIC NON-METAL	RF W056	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	È DXD	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W056	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S. DxD	s	00
		(10 x 24)			

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES ----

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FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	N REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
INORGANIC NON-METAL	RF W056	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3xD	HF	22
		(17 x 23)			
INORGANIC NON-METAL	RF W 05 6	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 x 106)			
INORGANIC NON-METAL	RF W057	CAUSTICS X HALOGENATED ORGANICS	DxT	н	ω
		(10 x 17)			
INORGANIC NON-METAL	RF_ ₩057	-CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	ω
		(10 x 23)			
INORGANIC NON-METAL	RF W057	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	22
		(17 x 23)			
LEAD/CADMIUM METAL WASTE	AW MOO1	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	ω
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	AW MOD1	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	5. DxD	S	ω
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	AW MOD1	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a 3 4
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	AW M002	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	80
		(10 x 23)			

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(«
LEAD/CADMIUM METAL WASTE	AW MOO2	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	DXD	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	AW MOO2	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	3 3 a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	A W W016	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	AW W016	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	D X M	S	00
		(10 × 24)			
LEAD/CADMIUM METAL WASTE	AW W016	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	MxD	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	AW W022	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	AW W022	CAUSTICS X METALS & METAL COMPOUNDS	, D×M	S	00 .
		(10~24)			
LEAD/CADMIUM METAL WASTE	AW W022	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	MxD	S	33a 34
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	ET M001	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	œ
		(10 x 23)		A	
x=Combined with (a) Concentration of rea	actants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pr diana (1-19% by wL): D=Dominant (>10% by wL)	m range); T3=Trace (<1 j		
(b)Reaction code: H=h	eat generation; S=	Minor (1-10% by wt.); D≑Dominant (>10% by wt.) solubilization of toxic substances; F=fire; GF= flammable eration; P=violent polymerization; E=explosive	: gas generation; G= nonf	iammabie gas gen	eration
(c) See text	Gi -www.gas.gen	erauen, r-morent perjimenzaluen, s-expressive			



	WASTE		CONCENTRATION	I	
WASTE MATRIX CODE GROUP	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(2)	REACTION CODE(b)	CODE NUMBER(c
LEAD/CADMIUM METAL WASTE	ET M001	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxD	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	ET MOOI	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	IN MOO4	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	80
		(10 × 23)			
LEAD/CADMIUM METAL WASTE	in M004 ·	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxM	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	IN MOO 4	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	MxD	S	3
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	IN MOOS	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	œ
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	IN MOO5	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DxM	S	œ
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	in Moos	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	MxD	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	RF W029	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DXD	GFH	00

(10 x 23)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)



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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
LEAD/CADMIUM METAL WASTE	RF W029	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxD	S	80
LEAD/CADMIUM METAL WASTE	RF W029	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	S	332
LEAD/CADMIUM METAL WASTE	RF W041	(24 x 106) ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	æ
LEAD/CADMIUM METAL WASTE	-RF W041 -	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	TxD	HF	Зf
LEAD/CADMIUM METAL WASTE	RF W041	(2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	ਗ਼	3g
LEAD/CADMIUM METAL WASTE	RF W041	(2 x 15) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	5
LEAD/CADMIUM METAL WASTE	RF WO41	(2 x 23) ACIDS, MINERAL, OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	TxD	s s	7
LEAD/CADMIUM METAL WASTE	RF W041	(2 x 24) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E TXD	H F GT	8
LEAD/CADMIUM METAL WASTE	RF W041	(2 x 101) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	TxD	н	. 1 0a

(2 x 106)

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonfiammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT) CODE NUMBER(«
LEAD/CADMIUM METAL WASTE	RF W041	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	RF W041	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxD	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	RF W041	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	RL M019	CAUSTICS X METALS, OTHER ELEMENTAL. & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	RL M01 9	CAUSTICS X METALS & METAL COMPOUNDS	, DxT	S	8
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	RL M019	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	RL M020	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	80
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	RL M020	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	RL MO20	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a

(24 x 106)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Winor (1-10% by wL); D=Dominant (>10% by wL)

WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL	CONCENTRATION OF REACTANTS(a)	REACTION	EXPLANATI CODE NUMBER(
IN MODI			GFH	00 00
	(10 x 23)			
IN MOO1	· ·	S, DXT	S	œ
	(10 x 24)			
IN MOD1	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	Τ×D	s	33a
	(24 x 106)			
1N W311	CAUSTICS X HALOGENATED ORGANICS	DxT	H	00
	(10×17)			
IN W311	• •	DxD	GF H	00
	(10 x 23)			
IN W311	HALOGENATED ORGANICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	20
	(17 x 23)			
IN W312	CAUSTICS X MÉTALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	14 0 0
	(10 x 23)			
IN W312	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DxT1	S	16 00
	(10 × 24)			
IN W312	CAUSTICS X WATER REACTIVE SUBSTANCES	D×M	EXTREMELY	17 00
	(10 x 107))
	STREAM UNIQUE ID IN MOD1 IN MOD1 IN MOD1 IN W311 IN W311 IN W312 IN W312	STREAM UNIQUE ID POTENTIAL CHEMICAL COMPATIBILITY REACTION IN MOD1 CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) IN MOD1 IN MOD1 CAUSTICS x METALS & METAL COMPOUNDS, TOXIC (10 x 24) IN MOD1 METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER (10 x 17) IN W311 (10 x 17) IN W311 CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) IN W311 CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) IN W311 HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) IN W312 CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) IN W312 CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) IN W312 CAUSTICS x METALS & METAL COMPOUNDS TOXIC	STREAM UNIQUE IDPOTENTIAL CHEMICAL COMPATIBILITY REACTIONOF REACTANTS(a)IN MODICAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETCD x D(IN MODICAUSTICS × METALS & METAL COMPOUNDS, TOXICD x T(IN MODICAUSTICS × METALS & METAL COMPOUNDS, TOXICD x T(IO x 23)(IO x 24)D x DIN MODIMETALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATERT x D(IO x 17)(IO x 17)D x TIN W311CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETCD x D(IO x 23)(IO x 17)D x DIN W311CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETCT x D(IO x 23)(IO x 23)T x DIN W312CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETCD x D(IO x 23)(IO x 23)D x DIN W312CAUSTICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETCD x D(IO x 23)(IO x 23)D x DIN W312CAUSTICS × METALS & METAL COMPOUNDS, D x T1 TOXICD x D(IN W312(IO x 23)D x DIN W312(IO x 24)D x MIN W312CAUSTICS × WATER REACTIVED x M	STREAM UNIQUE ID POTENTIAL CHEMICAL COMPATIBILITY REACTION OF REACTANTS(a) REACTION CODE(b) IN MODI CAUSTICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC Dx D GF H (10 x 23) IN MODI CAUSTICS XMETALS & METAL COMPOUNDS, TOXIC Dx T S (10 x 24) IN MODI CAUSTICS XMETALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER Tx D S (10 x 24) IN MODI METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER Tx D S (10 x 21) (10 x 17) IN W311 CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC Dx D GF H (10 x 27) (10 x 23) IN W311 CAUSTICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC Tx D H F (10 x 23) IN W311 HALOGENATED ORGANICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC Tx D H F (10 x 23) IN W312 CAUSTICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC D x D GF H (10 x 23) IN W312 CAUSTICS XMETALS & METAL COMPOUNDS, DROPS, ETC D x D GF H (10 x 24) IN W312 CAUSTICS XMETALS & METAL COMPOUNDS, DROPS, ETC D x M EXTREMELY (10 x 24) IN W312 CAUSTICS XMETALS & ME

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= monflammable gas generation; C= nonflammable gas generation; G= nonflammable gas generation; C= nonflamma

(c) See text

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TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SALT WASTE	IN W312	ETHERS X WATER REACTIVE SUBSTANCES	DxM	EXTREMELY	17b
		(14x 107)			
SALT WASTE	IN W3 12	FLUORIDES, INORANIC X WATER REACTIVE SUBSTANCES	D×M	EXTREMELY	18
	INTARA		DXM		21
SALT WASTE	IN W312	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	DXM	EXTREMELY	31
		(23 x 107)			
SALT WASTE	IN W312	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
		(24 x 106)			
SALT WASTE	IN W312	METALS & METAL COMPOUNDS, TOXIC X WATER REACTIVE SUBSTANCES	T1 x M	EXTREMELY	3
		(24 x 107)			
SALT WASTE	IN W312	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC X WATER REACTIVE SUBSTANCES	DxM	EXTREMELY	39
		(101 x 107)			
SALT WASTE	IN W314	CAUSTICS X HALOGENATED ORGANICS	DxT	н	ω
		(10 x 17)			
SALT WASTE	IN W314	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	a DxD	GF H	· 00
		(10 x 23)			
SALT WASTE	IN W314	HALOGENATED ORGANICS X METALS. OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	· 20

(17 x 23)

x=Combined with

(a) Concentration of reactants; T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

.

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANAT CODE NUMBER(
SALT WASTE	RF W058	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	15 00
		(10 x 23)			
SALT WASTE	RF W058	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT1	S .	16 00
		(10 x 24)			
SALT WASTE	RF W058	CAUSTICS X WATER REACTIVE SUBSTANCES	DxM	EXTREMELY	17 00
		(10 x 107)			
SALT WASTE	-RF W058 -	ETHERS X WATER REACTIVE SUBSTANCES	DxM	EXTREMELY	175
		(14 x 107)			
SALT WASTE	RF W058	FLUORIDES, INORANIC X WATER REACTIVE	DxM	EXTREMELY	18
		SUBSTANCES	-		
		(15 x 107)			
SALT WASTE	RF W058	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	DxM	EXTREMELY	31
		(23 x 107)			
SALT WASTE	RF W058	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
		(24 x 106)			
SALT WASTE	RF W058	METALS & METAL COMPOUNDS, TOXIC x WATER REACTIVE SUBSTANCES	T1 x M	EXTREMELY	. 35
		(24 x 107)			
SALT WASTE	RF W058	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	DxM	EXTREMELY	39
		(101 x 107)			
x=Combined with	antanta: TaTraca (-	<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low pp			
	M	Minor (1+10% by wL); D=Dominant (>10% by wL)			
		solubilization of toxic substances; F=fire; GF= flammable eration; P=violent polymorization; E=explosive	- Ga≈ Seuels hout, R± µou i	ananawe gas gene	n autori

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOILS	in W263	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
SOILS	IN W263	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	. DxT	S	œ
SOILS	IN W263	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T×D	\$	33a
SOILS	RL M007 -	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
SOILS	RL M007	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT	S	6
SOILS	RL MOO7	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
SOLIDIFIED INORGANICS	AL W005	(24 x 106) ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	00
Solidified Inorganics	AL W005	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	TxD	HF	Зf
SOLIDIFIED	AL W005	(2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	GT	Зg
		(2 x 15)			

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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	WASTE		CONCENTRATION	1	EXPLANAT
WASTE MATRIX CODE GROUP	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(2)	REACTION CODE(b)	CODE NUMBER(
SOLIDIFIED INORGANICS	AL W005	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	4
SOLIDIFIED INORGANICS	AL W005	(2 x 23) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLI & FLAMMABLE MATERIALS, MISC	E TXD	H F GT	9
Solidified Inorganics	AL WOOS	(2 x 101) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	TxD	н	10 10 a
SOLIDIFIED INORGANICS	-AL W005 -	(2 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	00
SOLIDIFIED INORGANICS	AL W005	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DxT	S	00
SOLIDIFIED INORGANICS	AL W005	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	s	33a 3 4
Solidified Inorganics	IN W146	(24 x 106) CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	k DxD	GF H	œ
SOLIDIFIED INORGANICS	IN W146	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DxT	S	œ
SOLIDIFIED INORGANICS	IN W146	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 × 106)			

(24 x 106)

x=Combined with (a) Concentration of reactants: T=Trace (<1% by vk.); T1=Trace (<0.1% by vk.); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by vk.); D=Dominant (>10% by vk.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G≠ nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX	WASTE STREAM	POTENTIAL CHEMICAL	CONCENTRATION OF	REACTION	EXPLANATIC CODE
CODE GROUP	UNIQUE ID	COMPATIBILITY REACTION	REACTANTS(a)	CODE(b)	NUMBER(c)
SOLIDIFIED INORGANICS	IN W157	ACIDS, ORGANIC X ALCOHOLS & GLYCOLS	MxT	HP	11 11a
		(3 x 4)			
SOLIDIFIED INORGANICS	IN W157	ACIDS, ORGANIC × CAUSTICS	M×D	н	00
		(3 x 10) ·			
SOLIDIFIED INORGANICS	IN W157	ACIDS, ORGANIC × FLUORIDES, INORANIC	M×D	GT	11d
		(3 x 15)			
SOLIDIFIED INORGANICS	IN-W157	-ACIDS, ORGANIC X METALS & METAL COMPOUNDS, TOXIC	Μϫͳ	S	12 1 2aa
		(3 x 24)			
SOLIDIFIED INORGANICS	IN W157	CAUSTICS X HALOGENATED ORGANICS	DxT	н	a
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W157	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	\$DxÐ	GFH	00
		(10 x 23)			
SOLIDIFIED	IN W157	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	5. DXT	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W157	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	25
		(17 x 23)			
SOLIDIFIED	IN W157	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a 3 4

(24 x 106)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED INORGANICS	IN W166	CAUSTICS X HALOGENATED ORGANICS	DxT1	н	· 00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W166	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	E DXD	GF H	00
		(10 x 23) ·			
SOLIDIFIED INORGANICS	IN W166	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	6, DXT1	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	- IN W166 "	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	HF	25
		(17 x 23)			
SOLIDIFIED INORGANICS	. IN W166	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	T1 xD	S	33a 3 4
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W177	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	0x0	GF H	15 00
		(10 x 23)			
SOLIDIFIED	IN W179	ACIDS, MINERAL, NON-OXIDIZING X CAUSTICS	TxD	н	œ
		(1 x 10)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, NON-OXIDIZING × ÉTHERS	TxD	н	Dasa
		(1 x 14)			
SOLIDIFIED	IN W179	ACIDS, MINERAL, NON-OXIDIZING X FLUORIDES, INORANIC	TxD	GT	Ceaaa
x=Combined with		(1 × 15)			
		<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppi =Ninor (1-10% by wt.); D=Dominant (>10% by wt.)	m range); T3=Trace (<1 p	pm range);	
		solubilization of toxic substances; F=fire; GF= flammable	gas generation; G= noral	iammable gas gene	ration

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED	IN W179	ACIDS, MINERAL, NON-OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	GFHF	1
SOLIDIFIED INORGANICS	IN W179	(1 x 23) ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	TxD	НG	3
SOLIDIFIED INORGANICS	IN W179	(1 x 101) ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	& TxD	н	Зb
SOLIDIFIED INORGANICS	IN ₩179 ·	(1 x 106) ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	00
Solidified Inorganics	IN W179	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	TxD	HF	
Solidified Inorganics	IN W179	(2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	F	3g
SOLIDIFIED	IN W179	(2 x 15) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GF H F	4
SOLIDIFIED INORGANICS	IN W179	(2 x 23) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLI & FLAMMABLE MATERIALS, MISC	E TxD	H F GT	9
SOLIDIFIED INORGANICS	IN W179	(2 × 101) ACIDS, MINERAL, OXIDIZING × WATER & MIXTURES CONTAINING WATER	TxD	н	1 0a
		(2 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range);

M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=hest generation: S= solubilization of toxic substances: F=fire: GF= flammable gas generation: G= nonflammable gas generation GT=toxic gas generation: P=violent polymerization: E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(«
SOLIDIFIED INORGANICS	IN W179	ACIDS, ORGANIC × CAUSTICS	ΤxD	н	00
		(3 x 10)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, ORGANIC × FLUORIDES, INORANIC	TxD	GT	11d
		(3×15)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS × ESTERS	DxT	н	00
		(10 x 13)			
SOLIDIFIED	4N W179	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS X KETONES	DXT	н	8
		(10 x 19)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS X METALS, OTHER ELEMENTAL, A ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS X METALS & METAL COMPOUND TOXIC	S, DxT	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W179	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	19
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W179	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a 3 4
x=Combined with		(24 x 105))

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	i REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED	IN W181	ACIDS, MINERAL, OXIDIZING x CAUSTICS	ΤxD	н	- 00
		(2 x 10)			
SOLIDIFIED	IN W181	ACIDS, MINERAL, OXIDIZING X ETHERS	ΤxĐ	HF	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	GT	3 g
		(2 x 15)			
Solidified Inorganics	IN W181	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GF H F	4
		(2 x 23)			
Solidified Inorganics	IN W181	ACIDS, MINERAL, OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E TXD	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	TxD	н	10 10a
		(2 x 106)			
SOLIDIFIED	IN W181	CAUSTICS X HALOGENATED ORGANICS	DxT	н	œ
		(10 x 17)			
Solidified Inorganics	IN W181	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	QxQ	GF H	- 15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W181	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxT	S	00
		(10 x 24)			-
x=Combined with (a) Concentration of real		<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pp Minor (1-10% by wL); D=Dominant (>10% by wL)	m range); T3=Trace (<1 p	ipm range);	

WASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION	EXPLANAT CODE NUMBER
SOLIDIFIED INORGANICS	IN W181	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	ΗF	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W181	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING × CAUSTICS	ΤxD	н	ω
		(2 x 10)			
Solidified Inorganics	- IN W188	ACIDS, MINERAL, OXIDIZING x ÉTHERS	TxD	HF	31
SOLIDIFIED INORGANICS	IN W188	(2 × 14) ACIDS, MINERAL, OXIDIZING × FLUORIDES, INORANIC	TxD	GT	Зg
		10 4 PA			
SOLIDIFIED INORGANICS	IN W188	(2 x 15) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E TxD	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	T×D	н	· 10
		·			
SOLIDIFIED	IN W188	(2 x 106) CAUSTICS x HALOGENATED ORGANICS	DxT	н	· co
		(10 x 17)		D	
x=Combined with (a) Concentration of rea	ictants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kw ppr	m range); T3=Trace (<1 ;	ppm range);	

Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kw ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

VASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	IN W188	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	15 00
		(10 × 23)			
SOLIDIFIED INORGANICS	IN W188	CAUSTICS X METALS & METAL COMPOUNDS, TOXIC	TxC	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	in w188	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	ත
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W188	, METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	ΤxD	S	33a 34
			-		
		(24 × 106)			
SOLIDIFIED	IN W216	ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	00-
		(2×10)			
SOLIDIFIED	IN W216	ACIDS, MINERAL, OXIDIZING x ETHERS	ΤxD	HF	Зf
		(2×14)			
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	GT	Зg
		(2 x 15)			
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	GFHF	4
		(2 x 23)			
Solidified Inorganics	IN W216	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	TxD	H F GT	9
x=Combined with		(2 x 101)			-

POTENTIAL CHEMICAL COMPATIBILITY REACTION ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER (2 × 105) CAUSTICS x HALOGENATED ORGANICS (10 × 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 × 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC (10 × 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (17 × 23)		REACTION DODE(b) H H GF H S	CODE NUMBER(10 00 15 00 00 25
(2 x 105) CAUSTICS x HALOGENATED ORGANICS (10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC (10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxT & DxD S, DxT	H GF H S	00 15 00 00
(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS. ETC (10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC (10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H S	15 00 00
(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC (10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H S	15 00 00
CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS X METALS & METAL COMPOUNDS TOXIC (10 x 24) HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	S, DxT	S	00
ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC (10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	S, DxT	S	00
CAUSTICS X METALS & METAL COMPOUNDS TOXIC (10 x 24) HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC			
TOXIC (10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC			
HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	ΗF	25
OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	25
(17 x 23)			
METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a 34
(24 x 106)			
ACIDS, MINERAL, OXIDIZING x CAUSTICS	TxD	н	00
(2 x 10)			
ACIDS, MINERAL, OXIDIZING X ETHERS	TxD	HF	Зf
(2×14)			
ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	GT	Зg
(2 × 15)		N	
	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS (2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	ACIDS, MINERAL, OXIDIZING x CAUSTICS $T \times D$ (2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS $T \times D$ (2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, $T \times D$ INORANIC	ACIDS, MINERAL, OXIDIZING x CAUSTICS $T \times D$ H (2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS $T \times D$ H F (2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, $T \times D$ GT INORANIC GT

(b)Reaction code: H=heat generation: S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	IN W220	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	Τ×D	GFHF	4
SOLIDIFIED INORGANICS	IN W220	(2 × 23) ACIDS, MINERAL, OXIDIZING × COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E TxD	H F GT	9
Solidified Inorganics	IN W220	(2 x 101) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	σxτ	н	10
SOLIDIFIED INORGANICS	I <u>N</u> ₩220	(2 × 106) CAUSTICS × HALOGENATED ORGANICS	DxT	н	œ
SOLIDIFIED INORGANICS	IN W220	(10 x 17) CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	15
SOLIDIFIED INORGANICS	IN-W220	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT	s	8
Solidified Inorganics	IN W220	(10 x 24) CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T3	HE	80
Solidified Inorganics	IN W220	(10 x 32) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	25
SOLIDIFIED INORGANICS	IN W220	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33 33a 3 4
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED INORGANICS	IN W221	ACIDS, ORGANIC x ALCOHOLS & GLYCOLS	M x T1	ΗP	11
		(3 x 4)			
SOLIDIFIED INORGANICS	IN W221	ACIDS, ORGANIC × CAUSTICS	MxD	н	00
		(3 x 10)			
Solidified Inorganics	IN W221	ACIDS, ORGANIC × FLUORIDES, INORANIC	MxD	GT	11 d
		(3 x 15)			
SOLIDIFIED	. IN W221	ACIDS, ORGANIC X METALS & METAL COMPOUNDS, TOXIC	MxT	S	12
		(3 x 24)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS X HALOGENATED ORGANICS	DxT	н	80
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS X KETONES	DxT	н	œ
		(10 x 19)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	gf H	8
		(10 x 23)			
SOLIDIFIÉD INORGANICS	IN W221	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	5, DXT	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS X ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	DxT	ΗE	80
		(10 x 32)		\mathbf{D}	
	M	<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low pp •Minor (1-10% by wt.); D=Dominant (>10% by wt.) solubilization of toxic substances; F=fire; GF= flammable		-	

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
SOLIDIFIED INORGANICS	IN W221	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	25
		(17 x 23)			
SOLIDIFIED INORGANICS	in w221	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a 3 4
		(24 x 106)			
Solidified Inorganics	in w222	CAUSTICS X ESTERS	DxT	н	00
		(10 x 13)			
SOLIDIFIED INORGANICS	IN <u>W</u> 222	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W222	CAUSTICS X KETONES	DxT	н	8
		(10 x 19)			
Solidified Inorganics	IN W222	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxØ	GF H	ω
		(10 x 23)			
SOLIDIFIED	IN W222	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	DXT	S	20
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W222	HALOGENATED ORGANICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W222	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33 33a

(24 x 106)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Wimor (1-10% by wL); D=Dominant (>10% by wL)

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING x CAUSTICS	ΤxD	н	00
		(2 x 10)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING × ETHERS	ΤxD	ΗF	3f
		(2×14)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING × FLUORIDES, INORANIC	ΤxD	GT	3g
		(2 x 15)			
SOLIDIFIED	_IN W228	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GF H F	4
		(2 x 23)			
SOLIDIFIED	IN W228	ACIDS, MINERAL, OXIDIZING x COMBUSTIBL & FLAMMABLE MATERIALS, MISC	E TxD	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	TxD	н	10
		(2 x 106)			
SOLIDIFIED	IN W228	CAUSTICS X HALOGENATED ORGANICS	ÐxT	н	80
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W228	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	S DxD	GF H	15 00
		(10 x 23)			
SOLIDIFIED	IN W228	CAUSTICS X METALS & METAL COMPOUND: TOXIC	5. DxT	S	8
x=Combined with		(10 x 24)		M	
(a) Concentration of rea	M	<1% by w£); T1=Trace (<0.1% by w£); T2=Trace (low p; •Minor (1-10% by w£); D=Dominant (>10% by w£) solubilization of toxic substances: F=fire: GF= flammabl			Nation

TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(«
SOLIDIFIED	IN W228	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	Τ×D	HF	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W228	METALS & METAL COMPOUNDS. TOXIC x WATER & MIXTURES CONTAINING WATER	ΤxD	S .	33 33s
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W332	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	8
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W347	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	LA W002	CAUSTICS × KETONES	DxT3	н	r
		(10 × 19)			
SOLIDIFIED INORGANICS	LA W002	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	5. DxT2	S	œ
		(10 × 24)			
Solidified Inorganics	LA W002	CAUSTICS x EXPLOSIVES	DxT2	HE	ω
SOLIDIFIED INORGANICS	LA W002	(10 × 102) CAUSTICS × WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	œ
		(10 × 107)			
SOLIDIFIED INORGANICS	LA W002	(10 x 107) ETHERS x OXIDIZING AGENTS, STRONG	DxT2	HF	17a

(14 x 104)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION	EXPLANATI CODE NUMBER(+
SOLIDIFIED INORGANICS	LA W002	ETHERS X WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	17ъ
		(14 x 107)			
SOLIDIFIED INORGANICS	LA W002	FLUORIDES, INORANIC X WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	18
		(15 x 107)			
SOLIDIFIED INORGANICS	LA W002	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	T2xD	S	33a 34
		(24 x 106)			l
SOLIDIFIED INORGANICS	- LA W003	CAUSTICS X KETONES	D x T3	н	00
		(10 x 19)			l
SOLIDIFIED	LA W003	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DxT3	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	LA W003	CAUSTICS X EXPLOSIVES	DxT2	HE	80
		(10 x 102)			
SOLIDIFIED INORGANICS	LA W003	CAUSTICS X WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	œ
		(10 x 107)			
SOLIDIFIED INORGANICS	LA W003	ETHERS X OXIDIZING AGENTS, STRONG	DxT2	HF	17a
		(14 x 104)			
SOLIDIFIED	LA W003	ETHERS X WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	176
timed with		(14 x 107)	ł		10 1987 - 19
x=Combined with (a) Concentration of rea		(<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low pp	ım range); T3≃Trace (<1	ppm h cci	F
(b)Reaction code: H≖h		Hinor (1-10% by wt.); D=Dominant (>10% by wt.) = solubilization of toxic substances; F=fire; GF= flammable	a gas generation; G= non	fiammable gas genr	eration

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	LA W003	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	D×T2	EXTREMELY	18
SOLIDIFIED INORGANICS	LA W003	(15 x 107) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T3×D	s	33 33a
SOLIDIFIED INORGANICS	LA W003	(24 x 106) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T2	, HE	364
SOLIDIFIED INORGANICS	LA W003	(101 x 102) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T2	HF G	37
SOLIDIFIED INORGANICS	LA W003	(101 x 104) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	30-
Solidified Inorganics	LA W006	(101 x 107) ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T2xD	н	Daaa
SOLIDIFIED INORGANICS	LA W006	(1 x 14) ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T2xD	GT	Caasa
Solidified Inorganics	LA W006	(1 x 15) ACIDS, MINERAL, NON-OXIDIZING × METALS OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2xD	GF H F	· 1
Solidified Inorganics	LA WOOS	(1 x 23) ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T2×D	НG	3
		(1 × 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fre; GP= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED	LA WOO6	ACIDS, MINERAL, NON-OXIDIZING X OXIDIZING AGENTS, STRONG	T2xD	H GT	3aa
		(1 x 104)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, NON-OXIDIZING X WATER & MIXTURES CONTAINING WATER	L T2xD	н	3b
		(1 x 106)			
SOLIDIFIED	LA W006	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T2×D	н	
		(2 x 10)			
SOLIDIFIED	LA W006 _	ACIDS, MINERAL, OXIDIZING x ETHERS	T2xD	HF	Зf
		(2x14)	-		
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING × FLUORIDES, INORANIC	T2xD	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2xD	GF H F	4
		(2 x 23)			
SOLIDIFIED	LA W006	ACIDS, MINERAL, OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T2xD	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	T2xD	н	10
		(2 x 106)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, ORGANIC × CAUSTICS	T2xD	н	00
x=Combined with		(3 x 10) <1% by wŁ); T1=Trace (≪0.1% by wŁ); T2≠Trace (kow ppr			

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED	LA W006	ACIDS, ORGANIC x FLUORIDES, INORANIC	T2×D	GT	· 11d
		(3 x 15)			
SOLIDIFIED	LA W006	ACIDS, ORGANIC X OXIDIZING AGENTS, STRONG	T2xD	H GT	12666
		(3 x 104)			
SOLIDIFIED INORGANICS	LA W006	ALCOHOLS & GLYCOLS X OXIDIZING AGENTS, STRONG	T2xD	HF	12bb
		(4 × 104)			
SOLIDIFIED	LĄ W006	_ AMINES, ALIPHATIC & AROMATIC x OXIDIZING AGENTS, STRONG	T2xD	H F GT	12d
		(7 x 104)			
Solidified Inorganics	LA W006	CAUSTICS X HALOGENATED ORGANICS	DxT2	н	8
		(10 x 17)			
SOLIDIFIED	LA W006	CAUSTICS X METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	DxT	GF H	00
		(10 x 21)			
SOLIDIFIED	LA W006	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	LA W006	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	6, DXTI	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	la w006	CAUSTICS X NITRO COMPOUNDS	DxT2	HE	00
x=Combined with		(10 x 27)	(VA)	N	-

WASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	LA W006	CAUSTICS X EXPLOSIVES	DxT	HE	œ
		(10 x 102)			
SOLIDIFIED INORGANICS	LA WOD6	CAUSTICS X WATER REACTIVE SUBSTANCES	DxT1	EXTREMELY	00
		(10 x 107)			
SOLIDIFIED	LA WOOG	ETHERS X OXIDIZING AGENTS, STRONG	DxD	HF	17a
		(14 x 104)			
SOLIDIFIED	LA W006 -	ETHERS X WATER REACTIVE SUBSTANCES	DxT1	EXTREMELY	17ь
		(14 x 107)			
SOLIDIFIED INORGANICS	LA W006	FLUORIDES, INORANIC X WATER REACTIVE SUBSTANCES	DxT1	EXTREMELY	18
		(15 x 107)			
SOLIDIFIED INORGANICS	- LA WOD6	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2xD	HF	25
		(17 x 23)			
SOLIDIFIED	LA W006	HALOGENATED ORGANICS X OXIDIZING AGENTS, STRONG	T2×D	H GT	28
		(17 x 104)			
SOLIDIFIED INORGANICS	LA W005	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	TXD	HGF	· 28b
		(21 × 101)			
SOLIDIFIED INORGANICS	LA W006	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x OXIDIZING AGENTS STRONG	T x D S,	HFE	· 28c
		(21 x 104)			
				-	

x=Combined with

(a) Concentration of reactants: T≠Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED	LA W006	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS × WATER & MIXTURES CONTAINING WATER	TxD	GF H	28d
		(21 x 106)			
SOLIDIFIED INORGANICS	LA W006	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC × OXIDIZING AGENTS, STRONG	DxD	ΗF	29
		(23 x 104)			
SOLIDIFIED INORGANICS	LA W006	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC X WATER REACTIVE SUBSTANCES	DxT1	EXTREMELY	31
		(23 x 107)			
SOLIDIFIED	LĄ W006	_ METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	332 34
SOLIDIFIED	LA W006	(24 x 106) NITRO COMPOUNDS x OXIDIZING AGENTS,	T2xD	HE	26
INORGANICS		STRONG	12.0	ΠĘ	
		(27 x 104)			
SOLIDIFIED	LA W006	HYDROCARBON, ALIPHATIC, SATURATED X OXIDIZING AGENTS, STRONG	T2xD	HF	36c
		(TD = 10.1)			
SOLIDIFIED INORGANICS	LA W006	(29 x 104) COMBUSTIBLE & FLAMMABLE MATÉRIALS, MISC x EXPLOSIVES	DxT	HE	36d `
		(101 x 102)			
SOLIDIFIED INORGANICS	LA W006	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC X OXIDIZING AGENTS, STRONG	DxD	HFG	37
		(101 x 104)			
SOLIDIFIED INORGANICS	LA W006	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC X WATER REACTIVE SUBSTANCES	DxT1	EXTREMELY	39
		42 - 427			

(101 x 107)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by vL); T1=Trace (<0.1% by vL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1+10% by vL); D=Dominant (>10% by vL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= ftammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATI CODE NUMBER(:
SOLIDIFIED INORGANICS	LA W006	EXPLOSIVES X OXIDIZING AGENTS, STRONG	5 TXD	HE	40
SOLIDIFIED INORGANICS	LA W006	(102 x 104) OXIDIZING AGENTS, STRONG x WATER REACTIVE SUBSTANCES	D×T1	EXTREMELY	41
SOLIDIFIED INORGANICS	LL WO19	(104 x 107) ACIDS, MINERAL, NON-OXIDIZING x ALCOHOLS & GLYCOLS	M×T	н	Oa
SOLIDIFIED INORGANICS	-LL W019	(1 x 4) ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	MxD	н	Oaa OO
SOLIDIFIED INORGANICS	LL W019	(1 x 10) ACIDS, MINERAL, NON-OXIDIZING x ETHERS	MxD	н	Oasa
SOLIDIFIED INORGANICS	LT M019	(1 x 14) ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	₩×D	GT	Oasaa
SOLIDIFIED INORGANICS	LT MO19	(1 x 15) ACIDS, MINERAL, NON-OXIDIZING x HALOGENATED ORGANICS	M×T	нGT	ОЬ
SOLIDIFIED INORGANICS	LL W019	(1 x 17) ACIDS, MINERAL, NON-OXIDIZING x KETONES	MxT	н	Овь
SOLIDIFIED INORGANICS	11 W019	(1 × 19) ACIDS, MINERAL, NON-OXIDIZING × METALS OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (1 × 78)	, MxD	G F H F	1
		(1 × 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING X METALS & METAL COMPOUNDS, TOXIC	MxT	S	2
SOLIDIFIED INORGANICS	LT MO18	(1 x 24) ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	MxD	HG	3
Solidified Inorganics	LL W019	(1 x 101) ACIDS, MINERAL, NON-OXIDIZING x EXPLOSIVES	MxT	HE	3a
Solidified Inorganics	LL W019 .	(1 × 102) ACIDS, MINERAL, NON-OXIDIZING × OXIDIZING AGENTS, STRONG	MxT	H GT	3aa
Solidified Inorganics	LL W019	(1 × 104) ACIDS, MINERAL, NON-OXIDIZING × WATER & MIXTURES CONTAINING WATER	& MxD	н	2
Solidified Inorganics	LL W019	(1 × 106) ACIDS, MINERAL, OXIDIZING × ACIDS, ORGANIC	МхТ	бн	30.
Solidified Inorganics	LL W019	(2 x 3) ACIDS, MINERAL, OXIDIZING x ALCOHOLS & GLYCOLS	MxT	HF	3d
SOLIDIFIED INORGANICS	LL W019	(2 x 4) ACIDS, MINERAL, OXIDIZING x CAUSTICS	MxD	н	3e 00
SOLIDIFIED INORGANICS	LL WO19	(2 x 10) ACIDS, MINERAL, OXIDIZING x ETHERS	MxD	HF	3f
		(2 x 14)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by w.); T1=Trace (<0.1% by w.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by WL); D=Dominant (>10% by WL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	N REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED	ET MQ13	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	MxD	GT	Зg
SOLIDIFIED INORGANICS	LL W019	(2 x 15) ACIDS, MINERAL, OXIDIZING x HALOGENATED ORGANICS	Μχͳ	H F GT	Зh
SOLIDIFIED INORGANICS	LL W019	(2 x 17) ACIDS, MINERAL, OXIDIZING x KETONES	MxT	HF	3i
SOLIDIFIED INORGANICS	-LL W019 -	(2 x 19) ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	MxD	GF H F	4
SOLIDIFIED	17 MQ18	(2 x 23) ACIDS, MINERAL, OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	MxT	S	6
SOLIDIFIED	LL W019	(2 x 24) ACIDS, MINERAL, OXIDIZING x COMBUSTIBLI & FLAMMABLE MATERIALS, MISC	E MxD	H F GT	9
SOLIDIFIED INORGANICS	LL W019	(2 x 101) ACIDS, MINERAL, OXIDIZING x EXPLOSIVES	MxT	HE	9a
SOLIDIFIED INORGANICS	LL W019	(2 x 102) ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	MxD	н	10 10 a
SOLIDIFIED INORGANICS	LT M018	(2 x 106) ACIDS, ORGANIC x CAUSTICS	TxD	H	116 00
		(3×10)		ser)	
	M	<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low pr Minor (1-10% by wt.); D=Dominant (>10% by wt.) solubilization of toxic substances; F=fire; GF=flammable			eration

TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES

FOR WASTE FORMS AND CONTAINER



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
SOLIDIFIED	LL W019	ACIDS, ORGANIC x FLUORIDES, INORANIC	TxD	GT	11d
Solidified Inorganics	LT MO19	(3 x 15) CAUSTICS x HALOGENATED ORGANICS	DxT	н	13 0 0
SOLIDIFIED INORGANICS	LT MO18	(10 x 17) CAUSTICS x KETONES	DxT	н	13a 00
SOLIDIFIED INORGANICS	LT M018	(10 x 19) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	16a 00
SOLIDIFIED INORGANICS	LT M013	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	. DxT	S	16a 🙉
SOLIDIFIED INORGANICS	LL. W019	(10 x 24) CAUSTICS x EXPLOSIVES	DxT	HE	16c 00
SOLIDIFIED INORGANICS	LT MO13	(10 x 102) ETHERS x OXIDIZING AGENTS, STRONG	DxT	HF	17a
SOLIDIFIED INORGANICS	LL W019	(14 x 104) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	ΗF	- 25
Solidified Inorganics	LL W019	(17 x 23) METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	DxT	HF	29
		(23 x 104)			

x=Combined with

(a) Concentration of reactants: T+Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= toxic gas generation; P=violent polymenzation; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI(CODE NUMBER(c
SOLIDIFIED INORGANICS	LL W019	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a 34
SOLIDIFIED		(24 x 106) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	DxT	HE .	364
SOLIDIFIED	LT M019	(101 x 102) COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	DxT	HFG	37
SOLIDIFIED INORGANICS	MD W002 ~	(101 x 104) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	š DxD.	GF H	80
SOLIDIFIED INORGANICS	OR W042	(10 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	\$DxD	GF H	œ
Solidified Inorganics	OR W042	(10 × 23) CAUSTICS × METALS & METAL COMPOUNDS TOXIC	S. DXT	S	00
SOLIDIFIED INORGANICS	OR WD42	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33 3 3a
SOLIDIFIED INORGANICS	OR W046	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, A ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	ω
SOLIDIFIED INORGANICS	OR W046	(10 x 23) CAUSTICS x METALS & METAL COMPOUND TOXIC	S, DxT		8
x=Combined with		(10 x 24)	and the second	Y	

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (kw ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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TABLE C1-1

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	i REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
SOLIDIFIED INORGANICS	OR W046	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	Τ×D	S	33a
SOLIDIFIED INORGANICS	PA WD14	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	00
SOLIDIFIED INORGANICS	PA W015	(10 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	œ
SOLIDIFIED INORGANICS	PA W015	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT	S	œ
SOLIDIFIED INORGANICS	PA W015	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	s	33a 34.
SOLIDIFIED INORGANICS	PAW015A	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	œ
SOLIDIFIED INORGANICS	RF M001	(10 x 23) CAUSTICS x HALOGENATED ORGANICS	DxT1	н	8
SOLIDIFIED INORGANICS	RF M001	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	œ
SOLIDIFIED INORGANICS	RF MOO1	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxT1	S	ω
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(«
SOLIDIFIED INORGANICS	RF MOC1	HALOGENATED ORGANICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	HF	· 19
SOLIDIFIED INORGANICS	RF M001	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
		(24 × 105)		,	
SOLIDIFIED INORGANICS	RF W010	(24 x 106) CAUSTICS x HALOGENATED ORGANICS	DxT1	Н	œ
Solidified Inorganics	RF W010	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	b DxD	GF H	00
Solidified Inorganics	RF W010	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DxT	s	ω
SOLIDIFIED INORGANICS	RF W010	(10 x 24) CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T3	HE	ω
SOLIDIFIED INORGANICS	RF W010	(10 x 32) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	НF	19
SOLIDIFIED INORGANICS	RF W010	(17 × 23) METALS & METAL COMPOUNDS, TOXIC × WATER & MIXTURES CONTAINING WATER	ΤxD	s	33a
SOLIDIFIED INORGANICS	RF W038	(24 x 106) ACIDS, ORGANIC x CAUSTICS	ŤxD	н	œ
		(3 x 10)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	i REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
SOLIDIFIED	RF W038	ACIDS, ORGANIC x FLUORIDES, INORANIC	TxD	GT	11d
SOLIDIFIED INORGANICS	RF W038	(3 x 15) CAUSTICS x KETONES	DxT	н	8
			DxD	65 H	~
SOLIDIFIED INORGANICS	RF W038	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC		GF H	80
Solidified Inorganics	RE W038	(10 x 23) - CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	DxT	HE	œ
SOLIDIFIED INORGANICS	RF W040	(10 x 32) CAUSTICS x HALOGENATED ORGANICS	DxT	н	8
SOLIDIFIED	RF W040	(10 x 17) CAUSTICS x KETONES	DxT	н	ω
SOLIDIFIED INORGANICS	RF W040	(10 x 19) CAUSTICS x METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D X D	GF H	80
SOLIDIFIED INORGANICS	RF W040	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	6. DxT	S	ω
SOLIDIFIED INORGANICS	RF W040	(10 x 24) CAUSTICS x NITRO COMPOUNDS	DxT	HE	80
		(10 × 27)			

(10 x 27)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wŁ); T1=Trace (<0.1% by wŁ); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wŁ); D=Dominant (>10% by wŁ)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= norflammable gas generation

GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
Solidified Inorganics	RF W040	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	26
		(17 x 23)			
SOLIDIFIED INORGANICS	RF W040	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	ΤxD	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	RF W059	CAUSTICS X METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	DxD	GF H	00
		(10 x 21)			
Solidified Inorganics	RF W059	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
SOLIDIFIED	RF W059	CAUSTICS X METALS & METAL COMPOUNDS	, DXT	S	œ
		(10 x 24)			
SOLIDIFIED INORGANICS	RF W059	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	DXD	HGF	28b
		(21 x 101)			
SOLIDIFIED	RF W059	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS × WATER & MIXTURES CONTAINING WATER	DxD	GF H	28d
		(21 x 106)			
SOLIDIFIED	RF W059	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
SOLIDIFIED	RF W063	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	k DxD	GF H	80
x=Combined with		(10 x 23)			
	M	<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pp Ménor (1-10% by wL); D=Dominant (>10% by wL) solubilization of toxic substances; F=fire; GF= flammable			

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIÉD INORGANICS	RF W063	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXT	S	· 00
SOLIDIFIED INORGANICS	RF W063	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	Τ×D	s	33 33 a 34
SOLIDIFIED INORGANICS	RF W065	(24 x 106) CAUSTICS X METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	DxD	GF H	8
SOLIDIFIED INORGANICS	RF W065	(10 x 21) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	ω
Solidified Inorganics	RF W085	(10 x 23) METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	D×D	HGF	285
SOLIDIFIED INORGANICS	RF W085	(21 x 101) METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	DxD	GF H	28d
SOLIDIFIED INORGANICS	RF W068	(21 x 106) CAUSTICS X HALOGENATED ORGANICS	DxT	н	œ
SOLIDIFIED INORGANICS	RF W068	(10 x 17) CAUSTICS x KETONES	DxT	н	00
SOLIDIFIED INORGANICS	RF W068	(10 x 19) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=hest generation; S= solubilization of toxic substances; F=fire; GF=flammable gas generation; G= nonflammable gas generation GT=toxic gas generation: P=violent polymerization; E=explosive

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GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

x=Compined with

(b)

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.): D=Dominant (>10% by wt.)

Reaction code: H≕heat generation; S≠ solubilization of toxic substances; F=fire; GF= flammable gas generatio	n; G= nonfiammable gas generation
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TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

POTENTIAL CHEMICAL

COMPATIBILITY REACTION

CAUSTICS X METALS & METAL COMPOUNDS.

CONCENTRATION

OF

REACTANTS(a)

DxT

DXT

TxD

TXD

DXT

DxT

DXD

DXT

DxT

REACTION

CODE(b)

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GF H

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EXPLANATIC

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WASTE

STREAM

UNIQUE ID

RF W068

RF W068

RF W068

RF W076

RF W076

RF W076

RF W076

RF W076

TOXIC

(10 x 24)

(10 x 27)

(17 x 23) RF W068 - METALS & METAL COMPOUNDS, TOXIC x

(24 x 106)

 (10×17)

(10 x 19)

 (10×23)

 (10×24)

 (10×27)

CAUSTICS X NITRO COMPOUNDS

DROPS, ETC

TOXIC

CAUSTICS x KETONES

CAUSTICS × NITRO COMPOUNDS

HALOGENATED ORGANICS x METALS,

RODS, MOLDINGS, DROPS, ETC

OTHER ELEMENTAL, & ALLOY, AS SHEETS,

WATER & MIXTURES CONTAINING WATER

CAUSTICS X HALOGENATED ORGANICS

CAUSTICS X METALS, OTHER ELEMENTAL, &

CAUSTICS X METALS & METAL COMPOUNDS,

ALLOY, AS SHEETS, RODS, MOLDINGS,

WASTE MATRIX

CODE GROUP

SOLIDIFIED

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	I REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED	RF W076	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	ΗF	19
SOLIDIFIED INORGANICS	RF W076	(17 × 23) METALS & METAL COMPOUNDS, TOXIC × WATER & MIXTURES CONTAINING WATER	TxD	S	33 33a
SOLIDIFIED INORGANICS	RL M005	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	- DxD	GFH	00
SOLIDIFIED INORGANICS	RL MOO5	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	, DxM	s	00
Solidified Inorganics	RL M005	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	MxD	S	332.24
SOLIDIFIED INORGANICS	RL M032	(24 x 106) CAUSTICS x ESTERS	DxT	н	œ
SOLIDIFIED INORGANICS	RL M032	(10 x 13) CAUSTICS x KETONES	DxT	н	00
SOLIDIFIED INORGANICS	Ri. M032	(10 x 19) CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	. 00
SOLIDIFIED INORGANICS	RL M032	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DXT	s	œ
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range);

M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fre; GF= fiammable gas generation; G= nonfiammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(«
METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
(24 x 106)			
CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
(10 x 17)			
CAUSTICS X KETONES	DxT	н	00
(10 x 19)			
- CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	8
(10 x 23)			
CAUSTICS X METALS & METAL COMPOUND: TOXIC	S, DxT	S	00
(10 x 24)			
CAUSTICS X NITRO COMPOUNDS	DxT	HE	00
(10 x 27)			
HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	19
(17 x 23)			
METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
(24 x 106)			
CAUSTICS X HALOGENATED ORGANICS	DxD	H	00
(10 x 17)			
((10 × 17)	(10 × 17)	

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
SOLIDIFIED ORGANICS	IN W167	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
		(10 x 23)			
SOLIDIFIED ORGANICS	IN W167	CAUSTICS X METALS & METAL COMPOUNDS, TOXIC	DXT	S	
		(10 x 24)			
SOLIDIFIED ORGANICS	IN W167	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	ΗF	23
		(17 x 23)			
SOLIDIFIED ORGANICS	IN.W167	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING × CAUSTICS	DxD	н	8
		(2×10)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x ETHERS	DxD	HF	Зf
		(2 x 14)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	DxD	GT	3g .
		(2×15)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H F	` 4
		(2 x 23)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	DxD	H F GT	9
		(2×101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (iow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire: GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive J

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	I REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	DxD	н	1 0 a
		(2 x 106)			
SOLIDIFIED ORGANICS	IN W174	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	IN W309	CAUSTICS X HALOGENATED ORGANICS	DxD	н	00
		(10 x 17)			
SOLIDIFIED ORGANICS	1 N W309 ~	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DXD	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	IN W309	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DXT	S	00
		(10 x 24)			
SOLIDIFIED ORGANICS	IN W309	HALOGENATED ORGANICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	HF	23
		(17 x 23)			
SOLIDIFIED ORGANICS	IN W309	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a
		(24 x 106)			
SOLIDIFIED ORGANICS	RF W013	CAUSTICS X HALOGENATED ORGANICS	DxD	н	00
		(10 x 17)			
SOLIDIFIED ORGANICS	RF W013	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	00
		(10 × 23)		i o	
				the state	
x=Combined with (a) Concentration of re	eactants: T=Trace /	(<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pp	om range); T3≖Trace (<1 '	ppm range);	**
•	M	=Minor (1-10% by wt.); D=Dominant (>10% by wt.) = solubilization of toxic substances; F=fire; GF= flammable			eration
(c) See text	GT=toxic gas ger	neration; P=violent polymerization; E=explosive	- <u>-</u>		

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED ORGANICS	RF W013	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	ΗF	ත
		(17 x 23)			
SOLIDIFIED ORGANICS	RF W069	CAUSTICS X HALOGENATED ORGANICS	DxT	н	œ
		(10 x 17)			
SOLIDIFIED ORGANICS	RF W069	CAUSTICS X KETONES	DxT	н	8
		(10 x 19)			
SOLIDIFIED ORGANICS	RF W069 ,	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	RF W089	CAUSTICS X NITRO COMPOUNDS	DxT	HE	8
		(10 x 27)			
SOLIDIFIED ORGANICS	RF W069	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TXD	HF	23 26
		(17 x 23)			
SOLIDIFIED ORGANICS	RL M017	CAUSTICS X ESTERS	DxT	н	00
		(10 x 13)			
SOLIDIFIED ORGANICS	RL 14017	CAUSTICS × KETONES	DxT	н	00
		(10 x 19)			
SOLIDIFIED ORGANICS	RL M017	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	È DxD	GF H	80
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation: S= solubilization of toxic substances; F=fire: GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

RL M018 RL M024 RR W006 WW W018	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS (10 x 21)	DxD	GF H GF H GF H	α α α
SR WOD6	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	DxD	GF H	00
SR WOD6	ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	DxD	GF H	00
W W018	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	·		
W W018	ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23) CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	·		
	CAUSTICS X METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	DxD	GF H	00
	EARTH, ELEMENTAL & ALLOYS	DxD	GF H	00
W W018	(10 x 21)			
W W018	(10 X Z I)			
	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
	(10 x 23)			
W W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	DxD	HGF	286
	(21 x 101)		11	
W W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS X WATER & MIXTURES CONTAINING WATER	DxD	GF H	28d
	(21 x 106)			
W W019	CAUSTICS X METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	DxD	GF H	00
	(10 x 21)			
W W019	· ·	DxD	GF H	œ
	(10 x 23)			a constraint of the
		(21 x 106) N W019 CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS (10 x 21) N W019 CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	(21 x 106) N W019 CAUSTICS x METALS, ALKALI & ALKALINE D x D EARTH, ELEMENTAL & ALLOYS (10 x 21) N W019 CAUSTICS x METALS, OTHER ELEMENTAL, & D x D ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	(21 x 106) N W019 CAUSTICS x METALS, ALKALI & ALKALINE D x D GF H EARTH, ELEMENTAL & ALLOYS (10 x 21) N W019 CAUSTICS x METALS, OTHER ELEMENTAL, & D x D GF H ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (iow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
UNCATEGORIZED	> AW W019	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS × COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	D×D	HGF	28b
		(21 x 101)			
UNCATEGORIZED METAL	AW W019	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	DxD	GF H	28d
		(21 x 106)			
UNCATEGORIZED METAL) AW W021	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL) AW W021	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DXT	S	00
		(10 x 24)	- -	•	
UNCATEGORIZED METAL) AW W021	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ŤxD	S	33
		(24 x 106)			
UNCATEGORIZED METAL) in MOO3	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL) in W280	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DXD	GFH	α
		(10 x 23)			
UNCATEGORIZED METAL) IN W280	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DXT	S	00
		(10 x 24)			
UNCATEGORIZED) IN W280	METALS & METAL COMPOUNDS, TOXIC x	TxD	s	3 3 a
METAL		WATER & MIXTURES CONTAINING WATER			

(24 x 106)

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=toxic gas generation; P=violent polymerization; E=explosive

	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT: CODE NUMBER(
UNCATEGORIZED METAL	IN W287	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	E DxD	GFH	. 00
UNCATEGORIZED METAL	IN W287	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, D×M	S	80
UNCATEGORIZED METAL	IN W287	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M×D	S	33a
UNCATEGORIZED METAL	~!N W294	(24 x 106) AMINES, ALIPHATIC & AROMATIC x HALOGENATED ORGANICS	DxD	HG	1 2 b
UNCATEGORIZED METAL	IN W294	(7 x 17) AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	DxD	S	12c
UNCATEGORIZED METAL	IN W294	(7 x 24) CAUSTICS x HALOGENATED ORGANICS	DxD	н	8
UNCATEGORIZED METAL	IN W294	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	8
UNCATEGORIZED METAL	IN W294	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S. DXD	S	œ
UNCATEGORIZED METAL	IN W294	(10 x 24) CAUSTICS x NITRO COMPOUNDS	DxD	ΗE	œ
		(10 x 27)			
x=Combined with (a) Concentration of read	ctanta: T≂Trace (• M=	<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pp Minor (1-10% by wL); D=Dominant (>10% by wL)	m range); T3=Trace (<1	opm range),	

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= nonflamma



WASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
UNCATEGORIZED METAL	IN W294	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	HF	24
UNCATEGORIZED METAL	IN W294	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	S	33 a
UNCATEGORIZED METAL	IN W296	(24 x 106) AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	TxD	S	12c
UNCATEGORIZED METAL	IN W296	(7 × 24) .CAUSTICS × ESTERS	DxT	н	00
UNCATEGORIZED METAL	IN W296	(10 x 13) CAUSTICS x HALOGENATED ORGANICS	DxT	н	8
UNCATEGORIZED METAL	in W296	(10 x 17) C AUSTIC S x KETONES	DxT	н	ω
UNCATEGORIZED METAL	IN W296	(10 x 19) CAUSTICS x METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GFH	α
UNCATEGORIZED METAL	IN W296	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DxD	s	. 00
UNCATEGORIZED METAL	IN W296	(10 x 24) CAUSTICS x NITRO COMPOUNDS	DxT	HE	œ
		(10 x 27)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: M=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
UNCATEGORIZED METAL	IN W296	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ŦxD	HF	24
		(17 x 23)			
UNCATEGORIZED METAL) IN W296	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	S	3 3 a
		(24 x 106)			
UNCATEGORIZED METAL	IN W296	CAUSTICS X HALOGENATED ORGANICS	DxT	н	00
		(10 × 17)			
UNCATEGORIZED METAL	-IN W298	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	œ
		(10 x 23)			
UNCATEGORIZED METAL	in W298	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DXD	S	00
		(10 x 24)			
UNCATEGORIZED METAL) in W298	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	24
		(17 x 23)			
UNCATEGORIZED METAL) in w/298	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	D×D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL) in W300	CAUSTICS X HALOGENATED ORGANICS	DxT1	н	œ
		(10 x 17)			
UNCATEGORIZED METAL) in w300	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	3. DxD	GF H	ω
		(10 × 23)			8
x=Combined with			» (

(a) Concentration of reactants: T=Trace (<1% by wŁ); T1=Trace (<0.1% by wŁ); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wŁ); D=Dominant (>10% by wŁ)

(b)Reaction code: H=heat generation: S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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	WASTE		CONCENTRATION		EXPLANATIC
WASTE MATRIX CODE GROUP		POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(a)	REACTION CODE(b)	CODE NUMBER(c
UNCATEGORIZED METAL	IN W300	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	, DxD	S	. 00
UNCATEGORIZED METAL	IN W300	(10 x 24) HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS,	T1 x D	HF	24
		RODS, MOLDINGS, DROPS, ETC (17 x 23)			
UNCATEGORIZED METAL	IN W300	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	IN W322	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
		(10 x 23)			
UNCATEGORIZED METAL	INW260A	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DXD	GF H	0
		(10 x 23)			
UNCATEGORIZED METAL	LA W001	ALDEHYDES X CAUSTICS	T2xD	н	00
		(5 x 10)			
UNCATEGORIZED METAL) LA WOO1	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL) LA W001	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DXD	S	00
		(10 x 24)			
UNCATEGORIZED METAL) LA W001	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a

(24 x 106)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fre; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T2xD	н	Qaaa
		(1 × 14)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING X FLUORIDES, INORANIC	T2xD	GT	Caasa
		(1 x 15)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	, T2xD	GFHF	1
		(1 × 23)			
UNCATEGORIZED METAL	ła w005 ·	ACIDS, MINERAL, NON-OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T2xD	HG	3
		(1 x 101)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING X WATER & MIXTURES CONTAINING WATER	& T2xD	н	30
		(1 x 106)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, OXIDIZING x ETHERS	T2xD	HF	Зf
		(2×14)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T2xD	GT	3g
		(2×15)			
UNCATEGORIZED METAL	la W005	ACIDS, MINERAL, OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2xD	GFHF	5
		(2 x 23)			
UNCATEGORIZED METAL	LA WOOS	ACIDS, MINERAL, OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	E T2xD	H F GT	8
x=Combined with		(2 x 101)			
(a) Concentration of read	M=	<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low pp =Winor (1-10% by wt.); D=Dominant (>10% by wt.) solubilization of toxic substances; F=fire; GF= flammable		and the second se	eration

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive



WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	I REACTION CODE(b)	EXPLANATIO: CODE NUMBER(c)
UNCATEGORIZED METAL	la W005	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T2xD	н	10a
		(2 x 106)	-		
UNCATEGORIZED METAL	LA W005	ACIDS, ORGANIC X CAUSTICS	T2xD	н	80
		(3 × 10)			
UNCATEGORIZED METAL	LA W005	ACIDS, ORGANIC x FLUORIDES, INORANIC	T2xD	GT	11 d
		(3 x 15)			
UNCATEGORIZED METAL	LA-W005	-CAUSTICS X HALOGENATED ORGANICS	DxT2	н	00
UNCATEGORIZED METAL	LA W005	(10 x 17) CAUSTICS x KETONES	DxT2	н	8
		(10 x 19)			
UNCATEGORIZED METAL	LA W005	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GFH	15
		(10 x 23)			
UNCATEGORIZED METAL	LA W005	CAUSTICS X METALS & METAL COMPOUNDS TOXIC	DxT	S	00
		(10 x 24)			
UNCATEGORIZED METAL	LA W005	CAUSTICS × ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D×T2	HE	80
		(10 x 32)			
UNCATEGORIZED METAL	LA W005	CAUSTICS X WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	80
		(10 × 107)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of twic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; CT=twic gas generation; P=violent polymerization; E=explosive

	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIO CODE NUMBER(c
UNCATEGORIZED METAL	LA W005	ETHERS X OXIDIZING AGENTS, STRONG	DxT2	ΗF	17a
		(14 x 104)			
UNCATEGORIZED METAL	LA W005	ETHERS X WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	175
		(14 x 107)			
UNCATEGORIZED METAL	LA W005	FLUORIDES, INORANIC × WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	18
		(15 x 107)			
UNCATEGORIZED METAL	LA W005	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2xD	HF	24
		(17 x 23)			
UNCATEGORIZED METAL	LA W005	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	DxT2	HF	30
		(23 x 104)			
UNCATEGORIZED METAL	LA W005	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC × WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	32
		(23 x 107)			
UNCATEGORIZED METAL	LA W005	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ŤxÐ	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	LA W005	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	DxT2	HFG	38
		(101 x 104)			
UNCATEGORIZED METAL	LA W005	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC X WATER REACTIVE SUBSTANCES	DxT2	EXTREMELY	39
		(101 x 107)			N

Schinds: 1 - (126 (<156 by wc), 12-1126 (<0.156 by wc), 12-1126 (N=Minor (1-10% by wt); D=Dominant (>10% by wt)

(b)Reaction code: H=heat generation; S= solubilization of twic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=twice gas generation; P=violent polymerization; E=explosive

TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER((
UNCATEGORIZED METAL	la W00 9	CAUSTICS X HALOGENATED ORGANICS	DxT	н	œ
		(10 x 17)			
UNCATEGORIZED METAL	LA W009	CAUSTICS x KETONES	DxT	н	œ
		(10 x 19)			
UNCATEGORIZED METAL	LA WOO9	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DXD	GF H	8
		(10 x 23)			
UNCATEGORIZED METAL	1. A W009	CAUSTICS X NITRO COMPOUNDS	DxT	HE	80
		(10 x 27)			
UNCATEGORIZED METAL	LA WOOD	HALOGENATED ORGANICS XMETALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	ΤxD	HF	A
		(17 x 23)			
UNCATEGORIZED METAL	LA WRO1	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	80
		(10 x 23)			
UNCATEGORIZED METAL	la WR05	CAUSTICS X METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	L DxD	GF H	œ
		(10 x 23)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING X CAUSTICS	TxD	H	α
		(1 x 10)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	TxD	н	Oaaaa

(1 x 14)

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (know ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire: GP= flammable gas generation; G= nonflammable gas generation; GT=toxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATIO CODE NUMBER(o
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	ΤxD	GT	Oaaa
		(1 x 15)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	1
		(1 x 23)			
UNCATEGORIZED METAL	ഥ. WO18	ACIDS, MINERAL, NON-OXIDIZING X COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	Τ×D	НG	3
		(1 × 101)			
UNCATEGORIZED METAL	-LL W018 ·	ACIDS, MINERAL, NON-OXIDIZING X WATER & MIXTURES CONTAINING WATER	≗ TxD	н	Зb
		(1 × 106)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING × CAUSTICS	TxD	н	00
		(2 x 10)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING × ETHERS	ΤxD	HF	31
		12 - 14			
UNCATEGORIZED METAL		(2 x 14) ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	TxD	GT	Зg
		(2 x 15)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	GFHF	5
		(2 x 23)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING X COMBUSTIBLI & FLAMMABLE MATERIALS, MISC	ETXD	H F GT	8
		(2 x 101)			
	Ma	<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low pp Minor (1-10% by wL); D=Dominant (>10% by wL) solubilization of toxic substances; F=fire; GF= flammable	•••••••••••••••••••••••••••••••••••••••	ammable gas geo	eration

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire: GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation: P=violent polymerization; E=explosive



	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING X WATER & MIXTURES CONTAINING WATER	TxD	н	1 0a
UNCATEGORIZED METAL	LL W018	(2 x 106) ACIDS, ORGANIC x CAUSTICS	ΤxD	н	8
UNCATEGORIZED METAL	LL W018	(3 x 10) ACIDS, ORGANIC x FLUORIDES, INORANIC	TxD	GT	11d
UNCATEGORIZED METAL	L± W018	(3 x 15) CAUSTICS x HALOGENATED ORGANICS	DxT	н	00
UNCATEGORIZED METAL	LL W018	(10 x 17) CAUSTICS x KETONES	DxT	н	
UNCATEGORIŻED METAL	나. W018	(10 x 19) Caustics x Metals, Alkali & Alkaline Farth, Elemental & Alloys	DxT	GF H	80
UNCATEGORIZED METAL	LL W018	(10 x 21) CAUSTICS X METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES	DxT	GFH	œ
UNCATEGORIZED METAL	LL W018	(10 x 22) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	& DxD	GF H	15 00
UNCATEGORIZED METAL	LL W018	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DXT	S	8

(10 x 24)

x=Combined with

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(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G=stoxic gas generation; P=violent polymerization; E=explosive

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	REACTION CODE(b)	EXPLANAT: CODE NUMBER(
UNCATEGORIZEE METAL) LL W018	CAUSTICS X EXPLOSIVES	ÐxT	HE	00
		(10 x 102)			
UNCATEGORIZEL METAL) LL W018	ETHERS X OXIDIZING AGENTS, STRONG	DxT	HF .	17a
		(14 x 104)			
UNCATEGORIZED METAL) (LL W018	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	TxD	HF	22
		(17 x 23)			
UNCATEGORIZED METAL) { ⊥W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS × COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	ΤxD	HGF	28b
		(21 x 101)			
UNCATEGORIZEE METAL) LL W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	ΤxD	GF H	28d
		(21 x 106)			
UNCATEGORIZEE METAL) LL W018	METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES X WATER & MIXTURES CONTAINING WATER (22 x 106)	ΤxD	GF H	28e
UNCATEGORIZED METAL) LL W018	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG		HF	30
		(23 x 104)			
UNCATEGORIZED METAL	D LL W018	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	S	33a
		(24 x 106)			
UNCATEGORIZEI METAL	D LL W018	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	DxT	HE	36d
x≈Combined with		(101 x 102)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2≈Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1 SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(2)	i REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
UNCATEGORIZED METAL	LL W018	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC X OXIDIZING AGENTS, STRONG	DxT	HFG	38
		(101 x 104) CAUSTICS X HALOGENATED ORGANICS	D x T1	н	œ
UNCATEGORIZED METAL	RF W011	CAUSTICS & PALOGENATED ORGANIOS	UXII	п	ŵ
		(10 x 17)			
UNCATEGORIZED METAL	RF W011	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DXD	GF H	œ
		(10 x 23)			
UNCATEGORIZED METAL	RF W011	CAUSTICS × METALS & METAL COMPOUNDS TOXIC	, DxD	S	00
UNCATEGORIZED METAL	RF W011	(10 × 24) HALOGENATED ORGANICS × METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	HF	21
		(17 x 23)			
UNCATEGORIZED METAL	RF W011	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	DxD	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	RF W037	CAUSTICS X HALOGENATED ORGANICS	DxT1	н	ω
		(1017)			
UNCATEGORIZED METAL	RF W037	(10 x 17) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	ω
		(10 x 23)			
UNCATEGORIZED METAL) RF W037	CAUSTICS X METALS & METAL COMPOUNDS	S. D×D	S	80
		(10 x 24)			
		··-··			

x=Combined with

.

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: Haheat generation; Sa solubilization of toxic substances; Fafire; GFafinamable gas generation; Ga nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

TABLE C1-1

SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER



WASTE			CONCENTRATION		EXPLANAT
WASTE MATRIX CODE GROUP	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(2)	REACTION CODE(b)	CODE NUMBER(
UNCATEGORIZED METAL	RF W037	HALOGENATED ORGANICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 xD	HF	24
UNCATEGORIZED METAL	RF W037	(17 x 23) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	DxD	S	33a
UNCATEGORIZED METAL	RL M001	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, 8 ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	Ł DxD	GF H	8
UNCATEGORIZED METAL	-RL M001	(10 x 23) CAUSTICS x METALS & METAL COMPOUNDS TOXIC	S, DxT	S	ω
UNCATEGORIZED METAL	RL MOO1	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	Τ×D	s	33a
UNCATEGORIZED METAL	RLM002	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	È DXD	GFH	ω
UNCATEGORIZED METAL	RL M002	(10 x 23) CAUSTICS X METALS & METAL COMPOUNDS TOXIC	S, DXT	S	œ
UNCATEGORIZED METAL) RL 11002	(10 x 24) METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	TxD	S	33a
UNCATEGORIZED METAL	0 RL M003	(24 x 106) CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 22)	& DxD	GF H	œ
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wL); T1=Trace (<0.1% by wL); T2=Trace (kow ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of troic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation; G= nonflamma

1	WASTE		CONCENTRATION		EXPLANATIO
	STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	OF REACTANTS(2)	REACTION CODE(b)	CODE NUMBER(c)
UNCATEGORIZED METAL	RL M008	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	RL M006	CAUSTICS X METALS & METAL COMPOUNDS, TOXIC	, DxT	s .	8
		(10 x 24) -			
UNCATEGORIŻED METAL	RL M006	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	ΤxD	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	RL-M021	CAUSTICS X METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	DxD	GF H	œ
		(10 x 23)			
UNCATEGORIZED METAL	RL M021	CAUSTICS X METALS & METAL COMPOUNDS, TOXIC	, DxT	S	8
		(10 x 24)			
UNCATEGORIZED METAL	RL M021	METALS & METAL COMPOUNDS, TOXIC X WATER & MIXTURES CONTAINING WATER	TxD	S	33a

(24 x 106)

x=Combined with

(a) Concentration of reactants; T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (kow ppm range); T3=Trace (<1 ppm range);

M=Minor (1-10% by wL); D=Dominant (>10% by wL)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF=flammable gas generation; G= nonflammable gas generation; G= nonflammable gas generation; C= nonflammab