



## F001 – F005 SPENT SOLVENTS

[Instructions: Check the line beside each waste included in the offsite shipment; circle or otherwise identify the individual constituents likely to be present in each waste.]

Non-wastewater	
Hazardous Waste Description	Constituents Of Concern
<input type="checkbox"/> F001 – Spent Halogenated Solvents used in Degreasing	Carbon Tetrachloride Methylene Chloride Tetrachloroethane 1,1,1-Trichloroethane Trichloroethylene 1,1,2-Trichloro-2,2-trifluoroethane Trichloromonofluoromethane
<input type="checkbox"/> F002 – Spent Halogenated Solvents	Chlorobenzene o-Dichlorobenzene Methylene Chloride Methylene Chloride (wastewater from the Pharmaceutical industry) Tetrachloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,1,2-Trichloro-2,2-trifluoroethane Trichloromonofluoromethane
<input type="checkbox"/> F003 – Spent non-halogenated Solvents	Acetone n-Butyl Alcohol Cyclohexanone <sup>1</sup> Ethyl Acetate Ethyl Benzene Ethyl Ether Methanol <sup>1</sup> Methanol Isobutyl Ketone Xylenes (total)
<input type="checkbox"/> F004 – Spent non-halogenated Solvents	Cresol (m- and p-isomers) o-Cresol Nitrobenzene
<input type="checkbox"/> F005 – Spent non-halogenated Solvents	Benzene Carbon Disulfide <sup>1</sup> 2-Ethoxyethanol Isobutyl Alcohol Methyl Ethyl Ketone 2-Nitropropane Pyridine Toluene

<sup>1</sup>The treatment standards for carbon disulfide, Cyclohexanone, and methanol nonwastewaters are based on the TCLP and apply only to spent solvents containing only one, two, or all three of these constituents. If a waste contains any of these three constituents along with any of the other constituents found in F001 – F005, then only the treatment standards for the other constituents apply (i.e., the standards for carbon disulfide, Cyclohexanone, and methanol do not apply when other constituents are present).

### F039 AND UNIVERSAL TREATMENT CONSTITUENTS

[Check the line that applies.]

- This shipment includes F039 multi-source leachate. The individual constituents likely to be present are checked below or on the following pages.
- This shipment includes a D001 or D002 waste prohibited under 268.37 and/or D012 – D043 characteristic waste and is prohibited under 268.38. The underlying hazardous constituents in the waste, as defined in 268.2 (1) are identified below or on the following pages.

EPA Code	Constituent/Subcategory	Treatability Group

#### CONSTITUENTS

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Acetone<br><input type="checkbox"/> Acenaphthylene<br><input type="checkbox"/> Acenaphthene<br><input type="checkbox"/> Acetonitrile<br><input type="checkbox"/> Acetophenone<br><input type="checkbox"/> 2-Acetylaminofluorene<br><input type="checkbox"/> Acrolein<br><input type="checkbox"/> Acrylamide <sup>1</sup><br><input type="checkbox"/> Acrylonitrile<br><input type="checkbox"/> Alderine<br><input type="checkbox"/> 4-Aminobiphen<br><input type="checkbox"/> Aniline<br><input type="checkbox"/> Aramite<br><input type="checkbox"/> Aroclor 1016<br><input type="checkbox"/> Aroclor 1221<br><input type="checkbox"/> Aroclor 1232<br><input type="checkbox"/> Aroclor 1242<br><input type="checkbox"/> Aroclor 1248<br><input type="checkbox"/> Aroclor 1254<br><input type="checkbox"/> Aroclor 1260<br><input type="checkbox"/> Alpha-BHC<br><input type="checkbox"/> Beta-BHC<br><input type="checkbox"/> Delta-BHC<br><input type="checkbox"/> Gamma-BHC<br><input type="checkbox"/> Benzene<br><input type="checkbox"/> Benz(a)anthracene<br><input type="checkbox"/> Benzol chloride <sup>1</sup><br><input type="checkbox"/> Benzo(b)fluoranthene<br><input type="checkbox"/> Benzo(k)fluoranthene<br><input type="checkbox"/> Benzo(g,h,i)perylene<br><input type="checkbox"/> Benzo(a)pyrene<br><input type="checkbox"/> Bromodichloromethane<br><input type="checkbox"/> Bromoform (Tribromomethane)<br><input type="checkbox"/> Bromomethane (methyl bromide)<br><input type="checkbox"/> 4-Bromophenyl phenyl ether<br><input type="checkbox"/> n-Butyl Alcohol<br><input type="checkbox"/> Butyl benzyl phthalate<br><input type="checkbox"/> 2-sec-Butyl-4,6-dinitrophenol (Dinoseb)<br><input type="checkbox"/> Carbon tetrachloride<br><input type="checkbox"/> Carbon disulfide<br><input type="checkbox"/> Chlorodane <sup>2</sup><br><input type="checkbox"/> p-Chloroaniline<br><input type="checkbox"/> Chlorobenzene | <input type="checkbox"/> Chlorobenzilate<br><input type="checkbox"/> 2-chloro-1,3butadiene<br><input type="checkbox"/> Chlordibromomethane<br><input type="checkbox"/> Chloroethane<br><input type="checkbox"/> bis- (2-Chloroethoxy) methane<br><input type="checkbox"/> bis- (2-Chloroethyl) ether<br><input type="checkbox"/> Bis- (2-ethylhexyl) phthalate<br><input type="checkbox"/> Chloroform<br><input type="checkbox"/> Bis- (2-Chloroisopropyl) ether<br><input type="checkbox"/> p-Chloro-m-cresol<br><input type="checkbox"/> 2-Chloroethyl vinyl ether <sup>1</sup><br><input type="checkbox"/> Chloromethane (methyl chloride)<br><input type="checkbox"/> 2-Chlorophenol<br><input type="checkbox"/> 3-Chloropropylene<br><input type="checkbox"/> Chrysene<br><input type="checkbox"/> O-Cresol<br><input type="checkbox"/> Cresol (m- and p-isomers)<br><input type="checkbox"/> Cyclohexanone<br><input type="checkbox"/> 1,2-Dibromo-3-Chloropropane<br><input type="checkbox"/> 1,2- Dibromoethane (Ethylene dibromide)<br><input type="checkbox"/> Dibromoethane<br><input type="checkbox"/> 2,4-Dichlorophenoxy acetic acid (2,4-D)<br><input type="checkbox"/> o,p'-DDD<br><input type="checkbox"/> p,p'-DDD<br><input type="checkbox"/> o,p'-DDE<br><input type="checkbox"/> p,p'-DDE<br><input type="checkbox"/> o,p'-DDT<br><input type="checkbox"/> p,p'-DDT<br><input type="checkbox"/> Dibenz(a,h) anthracene<br><input type="checkbox"/> Dibenzo(a,e)pyrene<br><input type="checkbox"/> m-Dichlorobenzene<br><input type="checkbox"/> o-Dochlorobenzene<br><input type="checkbox"/> p- Dochlorobenzene<br><input type="checkbox"/> Dichlorodifluoromethane<br><input type="checkbox"/> 1,1-Dichloroethane<br><input type="checkbox"/> 1,2- Dichloroethane<br><input type="checkbox"/> 1,1-Dichloroethylene<br><input type="checkbox"/> Tran-1,2-Dichloroethylene<br><input type="checkbox"/> 2,4-Dichlorophenol<br><input type="checkbox"/> 2,6-Dichlorophenol<br><input type="checkbox"/> 1,2-Dichloropropane<br><input type="checkbox"/> Cis-1,3-Dichloropene<br><input type="checkbox"/> Trans-1,3-Dichloropropylene | <input type="checkbox"/> Dieldrin<br><input type="checkbox"/> Diethyl phthalate<br><input type="checkbox"/> p-Dimethylaminoazobenzene <sup>1</sup><br><input type="checkbox"/> 2,4-Dimethyl phenol<br><input type="checkbox"/> Dimethyl phalate<br><input type="checkbox"/> Di-n-butyl phthalate<br><input type="checkbox"/> 1,4-Dinitrobenzene<br><input type="checkbox"/> 4,6-Dinitro-o-cresol<br><input type="checkbox"/> 2,4-Dinitrophenol<br><input type="checkbox"/> 2,4-Dinitrotoluene<br><input type="checkbox"/> 2,6- Dinitrotoluene<br><input type="checkbox"/> Di-n-octyl phthalate<br><input type="checkbox"/> Diphenylamine<br><input type="checkbox"/> 1,2-Diphenyl hydrazine<br><input type="checkbox"/> Diphenyl nitrosamine<br><input type="checkbox"/> 1,4-Dioxane<br><input type="checkbox"/> Disulfoton<br><input type="checkbox"/> Endosulfan I<br><input type="checkbox"/> Endosulfan II<br><input type="checkbox"/> Endosulfan sulfate<br><input type="checkbox"/> Endrin<br><input type="checkbox"/> Endrin aldehyde<br><input type="checkbox"/> Ethyl Acetate<br><input type="checkbox"/> Ethyl Cyanide (Propaenitrile)<br><input type="checkbox"/> Ethyl Benzene<br><input type="checkbox"/> Ethyl ether<br><input type="checkbox"/> Bis(2- Ethylhexyl) phthalate<br><input type="checkbox"/> Ethyl methacrylate<br><input type="checkbox"/> Ethylene oxide<br><input type="checkbox"/> Famphur<br><input type="checkbox"/> Furoanthene<br><input type="checkbox"/> Fluorene<br><input type="checkbox"/> Heptachlor<br><input type="checkbox"/> Heptachlor epoxide<br><input type="checkbox"/> Hexachlorobenzene<br><input type="checkbox"/> Hexachlorobutadiene<br><input type="checkbox"/> Hexachlorocyclopentadiene<br><input type="checkbox"/> Hexachlorodibenzo-furans<br><input type="checkbox"/> Hexachlorodibenzo-p-dioxins<br><input type="checkbox"/> Hexachloroethane<br><input type="checkbox"/> Hexachloropropylene<br><input type="checkbox"/> Indeno(1,2,3-c,d)pyrene<br><input type="checkbox"/> Iodomethane |
|--|--|--|

- Isobutyl alcohol
- Isodrin
- Isosafrole
- Kepone
- Methacrylonitrile
- Methanol
- Methapyrilene
- Methoxychlor
- 3-Methylcholanthrene
- 4,4-Methylene-bis-(2-chloroaniline)
- Methylene Chloride
- Methyl ethyl ketone
- Methyl isobutyl ketone
- Methyl methacrylate
- Methyl methansulfonate
- Methyl parathion
- Napthalene
- 2-Naphthylamine
- o-Nitroaniline<sup>1</sup>
- p-Nitroanile
- Nitrobenzene
- 5-Nitro-o-tolidine
- o-Nitrophenol<sup>1</sup>
- p- Nitrophenol
- N-Nitrosodiethylamine
- N-Nitrosodiemethylamine
- N-Nitroso-di-n-butylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopiperidine
- N-Nitrosopyrrolidine
- Parathion

- PCB's (Total)
- Pentachlorobenzene
- Pentachlorobenzo-furans
- Pentachlorobenzop-dioxins
- Pentachloroethane<sup>1</sup>
- Pentachloronitrobenzene
- Pentachlorophenol
- Phenacetin
- Phenanthrene
- Phenol
- Phorate
- Phthalic acid<sup>1</sup>
- Phthalic anhydride
- Pronamide
- Propaenitrile (ethyl cyanide)
- Pyrene
- Pyridine
- Safrole
- Silvex (2,4,5-TP)
- 2,4,5-T  
(2,4,5-Trichlorophenoxyacetic acid)
- 1,2,4,5-Tetrachlorobenzene
- Terachlorodibenzo-furans
- Terachlorodibenzo-p-dioxins
- 1,1,1,2-Tetrachloroethane
- 1,1,1,2-Tetrachloroethane
- Tetrachlorethylene
- 2,3,4,6-Tetrachlorophenol
- Tojuene
- Toxaphene
- Tribromomethane (Bromoform)
- 1,2,4-Trichlorobenzene

- 1,1,1-Trichloroethane
- 1,1,2-Trichlororhtane
- Trichloroethylene
- Trichloromonofluoromethane
- 2,4,5-Trichlorophenol
- 2,4,6- Trichlorophenol
- 1,2,3-Trichloropropane
- 1,1,-,Trichloro-1,2,2-tri-fluoroethane
- Thris(2,3-dibromopryl) phosphate
- Vinyl Chloride
- Xylene(s)
- Cyanides (total)
- Cyanides (amenable)
- Fluoride
- Sulfide
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium (total)
- Copper
- Lead
- Mercury
- Mercury (retort residues)<sup>1</sup>
- Selenium
- Silver
- Thallium
- Vanadium
- Zinc

<sup>1</sup> This constituent is not a regulated hazardous constituent in F039.

<sup>2</sup> This constituent includes alpha and gamma isomers.

Source: 56 FR 3892-3911

**CALIFORNIA LIST CONSTITUENTS**  
(Place a check next to the constituents likely to be present)

Constituent

- Nickel
- Thallium
- Liquids with PCBS
- Wastes containing HOCs<sup>1</sup>

<sup>1</sup> Halogenated organic compounds

\*Not acceptable for shipment to WASTE EXPRESS®

**SECTION IV Lab Packs**

EPA Code(s):

Lab Packs with EPA Code(s) specified by 40 CFR 268 Appendix IV must be reference in Section III of this form and may not be packaged or manifested for alternative lab pack treatment standards.

As required by 40 CFR 268.7(a)(8), the following certification is made for these restricted wastes:

I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only the wastes which have not been excluded under appendix IV to 40 CFR Part 268 or solid wastes not subject to regulation under 40 CFR Part 261. I am aware that there are significant penalties for submitting a false certification, including the possibilities of fine or imprisonment.

**SECTION V Certification**

**CERTIFICATION FOR MATERIALS MEETING LAND DISPOSAL TREATMENT STANDARDS**

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support his certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set fort in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am ware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

\_\_\_\_\_  
Authorized Representative Signature

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

**CERTIFICATION FOR MATERIALS NOT MEETING LAND DISPOSAL TREATMENT STANDARDS**

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certification, including the possibility of a fine and imprisonment.

\_\_\_\_\_  
Authorized Representative Signature

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date