

## RECOMMENDED USE DEFINITIONS

### IMMERSION SERVICE (Most Severe) – IS

Suitable for continuous contact with chemical exposure up to specified temperature.

### CARGO/TEMPORARY IMMERSION – CI

Suitable for 60 day continuous contact with chemical exposure up to specified temperature. Coating will show no effect except slight softening or color change, possibly permanent, after 60 days or less continuous immersion. When used in transport or hauling conditions, the vessel must be completely drained to prevent puddling that would constitute continuous immersion.

### SECONDARY CONTAINMENT – SC

Suitable for continuous contact with chemical for up to 72 hours. Softening or discoloration may occur during the exposure.

### FREQUENT CONTACT – FC

Suitable for frequent splash or up to 72 hours exposure to concentrated vapors. The coating will show no effects except slight softening or color change, possibly permanent, after eight hours continuous immersion in the liquid chemical or 72 hours exposure to the vapor.

### OCCASIONAL CONTACT (Least Severe) – OC

Suitable for occasional splash and spillage or occasional exposure to concentrated vapors. The coating shows no effects, except slight softening or color changes, following short exposure to splash or spillage which evaporates, is hosed off, or dried overnight or, 24 hours exposure to vapor.

**NOT TESTED** – This chemical has not been tested or evaluated for the listed chemical.

**NOT RECOMMENDED** – This product is not recommended for the listed exposure. The product's resistance to the listed chemical is often queried, therefore this information is provided as a reference even though the product is not recommended.

## IMPORTANT NOTES

The term "chemicals" is used broadly in this guide and can refer to various constituents including, but not limited to, acids, fatty acids, food and beverage materials, finished and unrefined hydrocarbons, as well as individual chemicals and chemical blends.

Temperature can have a significant effect on a coating's chemical resistance. Prior to coating selection, due care should be taken to determine the service temperature of stored chemicals, elevated temperature caused by natural environmental conditions (i.e. radiant heat from sun, weather), and temperature fluctuations during service (i.e. loading of cargo, service cycling).

Chemical mixtures and alternating chemical storage can aggressively degrade a coating or lining system. Prior to coating selection and application, the expected chemical exposures and sequence of chemical storage should be discussed with Tnemec Technical Service to ensure the proper coating is selected.

Proper surface preparation is always important to ensure optimum coating performance but it is even more so for coatings that will undergo chemical exposure. Carefully read product data sheets along with related application guides to determine the required level of surface preparation and surface profile.

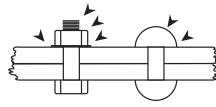
Structural designs of tanks, structures, and containment areas can greatly affect coating performance. Sharp angles, channels, edges, corners, pits, voids, defects, rough welds, and other similar conditions present areas that are either difficult to coat or achieve the required film thickness. Avoid skip welds in favor of continuous welds. A stripe coat on these areas, prior to full coating application, can help achieve needed film thickness and prevent premature coating failure. (Reference NACE SP0178-2007 for more information.)

The length of a coating system's service life depends on surface cleanliness and preparation prior to application, proper application procedures, exposure conditions, physical abuse, cleaning techniques, and frequency of inspection, maintenance, and repair. No coating system has an unlimited service life. Regular inspection of the coating system can prolong service life by identifying areas in need of repair. Additionally, regular inspections can determine when the coating system is nearing its end of service and should be completely replaced.

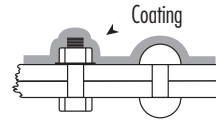
Chemical resistance information is provided for the purpose of establishing a general profile of the coating and was obtained through laboratory testing, field experience, and industry knowledge. Test results were produced in a controlled environment and Tnemec makes no claim that any tests, or published chemical resistance information, accurately represent all environments or correlate to actual field performance. Application, environmental and design factors, chemical temperatures, chemical mixtures, sequence of storage, conditions of service, and cleaning procedures can significantly impact coating performance, so due care must be exercised in the selection and use of the coating. Tnemec disclaims responsibility for product use outside its published information. Contact Tnemec Technical Service to review full project details before the coating or coating system is selected and applied.

## COMMON PROBLEM AREAS FOR COATINGS AND SOLUTIONS

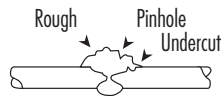
**Problem:**  
Points of failure due to thin spots in coating



**Solution:**  
Carefully and fully coat



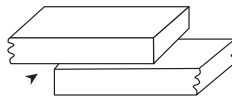
**Problem:**  
Uneven welds



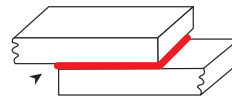
**Solution:**  
Grind smooth



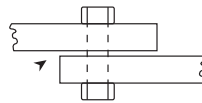
**Problem:**  
Gaps between plates, coating can not cover



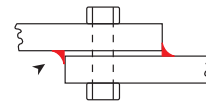
**Solution:**  
Continuous welds



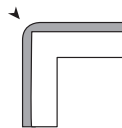
**Problem:**  
Gaps between plates, coating can not cover



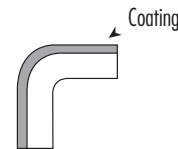
**Solution:**  
Continuous welds



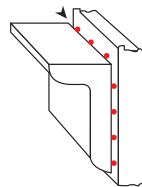
**Problem:**  
Sharp surface contours create thin spots in coating



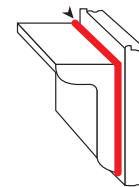
**Solution:**  
Round the contours



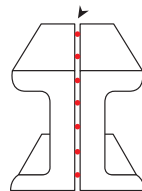
**Problem:**  
Skip welding creates gaps that coating can not cover



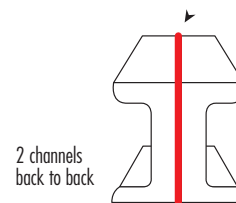
**Solution:**  
Continuous welds



**Problem:**  
Skip welding creates gaps that coating can not cover



**Solution:**  
Continuous welds



2 channels back to back

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
1, 1, 1-Trichloroethane (Trichloroethane)	NT	NT	NT	NT	NT
Acetaldehyde	NT	NT	NT	NT	NT
Acetic Acid, Glacial	100°F (38°C)	100°F (38°C)			
Acetic Anhydride	NT	NT	NT	NT	NT
Acetone	100°F (38°C)	100°F (38°C)			
Acetonitrile	NT	NT	NT	NT	NT
Acetyl Chloride	NT	NT	NT	NT	NT
Acrylic Latex Solution	NT	NT	NT	NT	NT
Acrylonitrile	NR	NR	NR	NR	NR
Activated Carbon	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Adipic Acid	NT	NT	NT	NT	NT
Adipic Acid (Dry)	NT	NT	NT	NT	NT
Allyl Alcohol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Allyl Chloride	NT	NT	NT	NT	NT
Aluminum Bromide	100°F (38°C)	100°F (38°C)			
Aluminum Chloride	100°F (38°C)	100°F (38°C)			
Aluminum Hydroxide	NT	NT	NT	NT	NT
Aluminum Nitrate	NT	NT	NT	NT	NT
Aluminum Sulfate (Alum)	NT	NT	NT	NT	NT
Aluminum Sulfate, saturated solution	NT	NT	NT	NT	NT
Ammonium Bisulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Carbonate	NT	NT	NT	NT	NT
Ammonium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Fluoride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ammonium Fluosilicate	NT	NT	NT	NT	NT
Ammonium Hydroxide	NT	NT	NT	NT	NT
Ammonium Lauryl Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Ammonium Nitrate	100°F (38°C)	100°F (38°C)			
Ammonium Nitrite	NT	NT	NT	NT	NT
Ammonium Perchlorate (Dry)	NT	NT	NT	NT	NT
Ammonium Persulfate	100°F (38°C)	100°F (38°C)			
Ammonium Phosphate	NT	NT	NT	NT	NT
Ammonium Sulfamate	100°F (38°C)	100°F (38°C)			
Ammonium Sulfate	NT	NT	NT	NT	NT
Ammonium Sulfide	100°F (38°C)	100°F (38°C)			
Ammonium Sulfite	100°F (38°C)	100°F (38°C)			
Ammonium Thiosulfate	NT	NT	NT	NT	NT
Ammonium Xylene Sulfonate	100°F (38°C)	100°F (38°C)			
Amyl Acetate	100°F (38°C)	100°F (38°C)			
Amyl Alcohol	100°F (38°C)	100°F (38°C)			
Aniline	NR	NR	NR	NR	NR
Aniline Hydrochloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Animal Fats	NT	NT	NT	NT	NT
Animal Oil	NT	NT	NT	NT	NT
Antimony Chloride (tri)	100°F (38°C)	100°F (38°C)			
Aqua Ammonia	NT	NT	NT	NT	NT
Aqua Regia	100°F (38°C)	100°F (38°C)			
Arsenous Acid	100°F (38°C)	100°F (38°C)			
ASTM Reference (Fuels A & C)	NT	NT	NT	NT	NT
Aviation Gas	NT	NT	NT	NT	NT
Barium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Barium Hydroxide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Barium Nitrate	NT	NT	NT	NT	NT
Barium Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Barium Sulfide	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Beer (non-food contact) <sup>1</sup>	NR	NR	NR	NR	NR
Benzal Chloride	100°F (38°C)	100°F (38°C)			
Benzaldehyde	NR	NR	NR	NR	NR
Benzene	100°F (38°C)	100°F (38°C)			
Benzene Sulfonic Acid	100°F (38°C)	100°F (38°C)			
Benzene Thiol	100°F (38°C)	100°F (38°C)			
Benzoic Acid	NT	NT	NT	NT	NT
Benzoyl Chloride	NT	NT	NT	NT	NT
Benzyl Alcohol	NT	NT	NT	NT	NT
Benzyl Chloride	NT	NT	NT	NT	NT
Blood	NT	NT	NT	NT	NT
Borax	NT	NT	NT	NT	NT
Boric Acid (dry)	NT	NT	NT	NT	NT
Boric Acid Solution	NT	NT	NT	NT	NT
Bromine	NR	NR	NR	NR	NR
Bromine Gas (Dry)	NR	NR	NR	NR	NR
Bromine Gas (Wet)	NR	NR	NR	NR	NR
Butric Acid	NT	NT	NT	NT	NT
Butyl Acid Levulinic	100°F (38°C)	100°F (38°C)			
Butyl Acrylate	100°F (38°C)	100°F (38°C)			
Butyl Amine	100°F (38°C)	100°F (38°C)			
Butyl Ether	100°F (38°C)	100°F (38°C)			
Butylbenzyl Phthalate	NT	NT	NT	NT	NT
Butyric Acid	NR	NR	NR	NR	NR
Cadmium Bromide	NT	NT	NT	NT	NT
Cadmium Chloride	100°F (38°C)	100°F (38°C)			
Cadmium Plating (Cyanide)	100°F (38°C)	100°F (38°C)			
Calcium Bisulfate	NT	NT	NT	NT	NT

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Calcium Bisulfite	100°F (38°C)	100°F (38°C)			
Calcium Bromide	NT	NT	NT	NT	NT
Calcium Carbonate	NT	NT	NT	NT	NT
Calcium Chloride	NT	NT	NT	NT	NT
Calcium Hydroxide (Lime Slurry)	NT	NT	NT	NT	NT
Calcium Hypochlorite	NT	NT	NT	NT	NT
Calcium Nitrate	NT	NT	NT	NT	NT
Calcium Nitrite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Oxide	NT	NT	NT	NT	NT
Calcium Sulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Calcium Sulfite	100°F (38°C)	100°F (38°C)			
Caprolactam	NT	NT	NT	NT	NT
Caprylic Acid (Octanoic Acid)	NT	NT	NT	NT	NT
Carbon Bisulfide (Di) Fumes (wet)	NR	NR	NR	NR	NR
Carbon Dioxide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Carbon Disulfide	NT	NT	NT	NT	NT
Carbon Tetrachloride	100°F (38°C)	100°F (38°C)			
Castor Oil	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Caustic Potash	NT	NT	NT	NT	NT
Chlorine Dioxide	NT	NT	NT	NT	NT
Chloroacetic Acid	NR	NR	NR	NR	NR
Chlorobenzene	100°F (38°C)	100°F (38°C)			
Chlorobutane	100°F (38°C)	100°F (38°C)			
Chloroform	NR	NR	NR	NR	NR
Chlorophenol	NR	NR	NR	NR	NR
Chlorosulfonic Acid	NR	NR	NR	NR	NR
Chlorotoluene	NR	NR	NR	NR	NR

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Chlorowax 40	NT	NT	NT	NT	NT
Chromic Acid	100°F (38°C)	100°F (38°C)			
Chromic Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Citric Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Coal (high and low sulfur)	NT	NT	NT	NT	NT
Cola (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Copper Acetate	NT	NT	NT	NT	NT
Copper Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Copper Liquor	NT	NT	NT	NT	NT
Copper Nitrate	100°F (38°C)	100°F (38°C)			
Copper Plating (Acid)	100°F (38°C)	100°F (38°C)			
Copper Plating (Cyanide)	100°F (38°C)	100°F (38°C)			
Copper Sulfate	NT	NT	NT	NT	NT
Copper Sulfate (dry)	NT	NT	NT	NT	NT
Corn Oil (non-food contact) <sup>1</sup>	100°F (38°C)	100°F (38°C)			
Cottonseed Oil (non-food contact) <sup>1</sup>	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Cresol	NR	NR	NR	NR	NR
Cresylic Acid	NR	NR	NR	NR	NR
Crude Oil (Sour)	100°F (38°C)	100°F (38°C)			
Crude Oil (Sweet)	NT	NT	NT	NT	NT
Cumene	100°F (38°C)	100°F (38°C)			
Cumene Hydroperoxide	NT	NT	NT	NT	NT
Cuprous Chloride	NT	NT	NT	NT	NT
Cyclohexane	100°F (38°C)	100°F (38°C)			
Cyclohexanone	100°F (38°C)	100°F (38°C)			
Cyclohexylamine	NT	NT	NT	NT	NT
Cymene	100°F (38°C)	100°F (38°C)			
Detergent (Chiffon)	NT	NT	NT	NT	NT

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Dextrose	100°F (38°C)	100°F (38°C)			
Diacetone Alcohol	NT	NT	NT	NT	NT
Dibromopropane Phosphate	100°F (38°C)	100°F (38°C)			
Dibutyl Phthalate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Dichloroacetic Acid	NR	NR	NR	NR	NR
Diesel Fuel (Fuel Oil, Diesel Oil)	NT	NT	NT	NT	NT
Diethanolamine	100°F (38°C)	100°F (38°C)			
Diethylene Chloroformate	100°F (38°C)	100°F (38°C)			
Diethylene Glycol	NR	NR	NR	NR	NR
Diethylene Glycol Monobutyl Ether (Butyl "Carbitol")	NT	NT	NT	NT	NT
Diethylenetriamine	NT	NT	NT	NT	NT
Diethylketone	NT	NT	NT	NT	NT
Dimethyl Carbamoyl Chloride	100°F (38°C)	100°F (38°C)			
Dimethyl Formamide	NR	NR	NR	NR	NR
Dimethyl Sulfoxide	100°F (38°C)	100°F (38°C)			
Dimethylaminopropylamine	NR	NR	NR	NR	NR
Dimethylaniline	NR	NR	NR	NR	NR
Dinitro Toluene	100°F (38°C)	100°F (38°C)			
Dinitrobenzene	100°F (38°C)	100°F (38°C)			
Dioctyl Phthalate	NT	NT	NT	NT	NT
Dipropylene Glycol	NT	NT	NT	NT	NT
Dodecyl Alcohol (Lauryl Alcohol)	100°F (38°C)	100°F (38°C)			
Essential Oil	NT	NT	NT	NT	NT
Ethanol (Denatured Alcohol, Ethyl Alcohol)	NT	NT	NT	NT	NT
Ethanolamine	NT	NT	NT	NT	NT
Ethoxy Ethanol	100°F (38°C)	100°F (38°C)			

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Ethoxylated Nonyl Phenol	100°F (38°C)	100°F (38°C)			
Ethyl Acetate	NR	NR	NR	NR	NR
Ethyl Acrylate	NR	NR	NR	NR	NR
Ethyl Benzene	NT	NT	NT	NT	NT
Ethyl Bromide	NR	NR	NR	NR	NR
Ethyl Chloride	100°F (38°C)	100°F (38°C)			
Ethyl Chloroformate	100°F (38°C)	100°F (38°C)			
Ethyl Ether	NR	NR	NR	NR	NR
Ethyl Sulfate	100°F (38°C)	100°F (38°C)			
Ethyl Tert-Butyl Ether (ETBE)	NT	NT	NT	NT	NT
Ethylamine	NR	NR	NR	NR	NR
Ethylene Dichloride	NR	NR	NR	NR	NR
Ethylene Glycol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Ethylene Oxide	NR	NR	NR	NR	NR
Fatty Acids (Greater than C6)	NT	NT	NT	NT	NT
Ferric Chloride	NT	NT	NT	NT	NT
Ferric Nitrate	100°F (38°C)	100°F (38°C)			
Ferric Sulfate	100°F (38°C)	100°F (38°C)			
Fluorosilicic Acid (Hydrofluorosilicic Acid)	NT	NT	NT	NT	NT
Formaldehyde	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Fructose (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Fruit Juices (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Furan	NT	NT	NT	NT	NT
Furfural	NT	NT	NT	NT	NT
Furfuryl Alcohol	NT	NT	NT	NT	NT
Gasoline (Reformulated)	NT	NT	NT	NT	NT
Gasoline (Unleaded)	100°F (38°C)	100°F (38°C)			

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Gasoline (w/ETBE, 15% max)	NT	NT	NT	NT	NT
Gasoline (w/TAME, 15% max)	NT	NT	NT	NT	NT
Gasoline (w/TBA, 15% max)	NT	NT	NT	NT	NT
Gasoline (w/WTBE, 15% max)	NT	NT	NT	NT	NT
Gelatine (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Glucose (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Glycerin	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Glycol Acid	100°F (38°C)	100°F (38°C)			
Gold Plating (Cyanide)	100°F (38°C)	100°F (38°C)			
Gold Plating Solution	NT	NT	NT	NT	NT
Grape Juice	NT	NT	NT	NT	NT
Guar Gum (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Heptane	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Heptanol	NR	NR	NR	NR	NR
Hexane	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hexanol	NT	NT	NT	NT	NT
Hexylene Glycol	NT	NT	NT	NT	NT
Hydraulic Fluid (Hydraulic Oil)	NT	NT	NT	NT	NT
Hydrazine	100°F (38°C)	100°F (38°C)			
Hydrazine Hydrate	NR	NR	NR	NR	NR
Hydriodic Acid	NT	NT	NT	NT	NT
Hydrobromic Acid	100°F (38°C)	100°F (38°C)			
Hydrochloric Acid	NT	NT	NT	NT	NT
Hydrofluoric Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Hydrogen Peroxide	NR	NR	NR	NR	NR
Hydrogen Sulfide	NT	NT	NT	NT	NT
Hypochlorous Acid	NR	NR	NR	NR	NR

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Iodine (Crystals and vapor)	100°F (38°C)	100°F (38°C)			
Isobutyl Acetate	NT	NT	NT	NT	NT
Isobutyl Alcohol	NT	NT	NT	NT	NT
Isooctane	NT	NT	NT	NT	NT
Isooctylthioglycolcolate	100°F (38°C)	100°F (38°C)			
Isophorone	NR	NR	NR	NR	NR
Isopropyl Acetate	100°F (38°C)	100°F (38°C)			
Isopropyl Alcohol	100°F (38°C)	100°F (38°C)			
Isopropyl Ether	100°F (38°C)	100°F (38°C)			
Jet A Fuel	100°F (38°C)	100°F (38°C)			
JP-4 Aviation Fuel	100°F (38°C)	100°F (38°C)	100°F (38°C)		
JP-5 Aviation Fuel	NT	NT	NT	NT	NT
Kaolin	NT	NT	NT	NT	NT
Kerosene	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lactic Acid	NT	NT	NT	NT	NT
Lard (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Lauric Acid	100°F (38°C)	100°F (38°C)			
Lauryl Chloride	100°F (38°C)	100°F (38°C)			
Lead Acetate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lecithin	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Levulinic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Linseed Oil	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lithium Bromide	NR	NR	NR	NR	NR
Lithium Hydroxide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Lithium Hydroxide (saturated)	100°F (38°C)	100°F (38°C)			
Lubricating Oil (SAE 5W-40, et al) (Motor Oil)	NT	NT	NT	NT	NT
Magnesium Bisulfite	NT	NT	NT	NT	NT

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Magnesium Hydroxide	NT	NT	NT	NT	NT
Magnesium Sulfate	NT	NT	NT	NT	NT
Maleic Acid	100°F (38°C)	100°F (38°C)			
Maleic Anhydride	NT	NT	NT	NT	NT
Malic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Mercury	NT	NT	NT	NT	NT
Mercury and Salts	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Methacrylic Acid	NT	NT	NT	NT	NT
Methane Gas	NT	NT	NT	NT	NT
Methanol (Methyl Alcohol)	NT	NT	NT	NT	NT
Methyl Acetate	100°F (38°C)	100°F (38°C)			
Methyl Acrylate	NT	NT	NT	NT	NT
Methyl Amyl Alcohol	NT	NT	NT	NT	NT
Methyl Amyl Ketone	NT	NT	NT	NT	NT
Methyl Chloride	NR	NR	NR	NR	NR
Methyl Ethyl Ketone	100°F (38°C)	100°F (38°C)			
Methyl Isobutyl Chloride	NR	NR	NR	NR	NR
Methyl Isobutyl Ketone	NT	NT	NT	NT	NT
Methyl Methacrylate	NT	NT	NT	NT	NT
Methyl Oleate	100°F (38°C)	100°F (38°C)			
Methyl Propyl Ketone	NT	NT	NT	NT	NT
Methyl tert-Butyl Ether (MTBE)	NT	NT	NT	NT	NT
Methylene Chloride	NR	NR	NR	NR	NR
Milk (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Mineral Oil	NR	NR	NR	NR	NR
Mineral Spirits	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Molasses (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Morpholine	NR	NR	NR	NR	NR
Naphtha	NR	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR	NR
Naphthenic Acid	NR	NR	NR	NR	NR
n-Butyl Acetate (Butyl Acetate)	NT	NT	NT	NT	NT
n-Butyl Alcohol (1-Butanol) (Butanol (Normal))	NT	NT	NT	NT	NT
n-Decyl Alcohol (Decyl Alcohol (1-Decanol))	NT	NT	NT	NT	NT
Nickel Chloride	NR	NR	NR	NR	NR
Nickel Plating (bright)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Nitric Acid	100°F (38°C)	100°F (38°C)			
Nitrilotriethanol	100°F (38°C)	100°F (38°C)			
Nitrobenzene	NR	NR	NR	NR	NR
Nitromethane	NR	NR	NR	NR	NR
n-Methyl-2-Pyrrolidone	NT	NT	NT	NT	NT
n-Octyl Alcohol (Octanol)	100°F (38°C)	100°F (38°C)			
Nonyl Phenol	NR	NR	NR	NR	NR
Octane	NR	NR	NR	NR	NR
Oleic Acid	100°F (38°C)	100°F (38°C)			
Oxalic Acid	100°F (38°C)	100°F (38°C)			
Ozone <2 ppm	NR	NR	NR	NR	NR
Palm Oil	NR	NR	NR	NR	NR
Paraldehyde	NR	NR	NR	NR	NR
Parrafin Wax	NR	NR	NR	NR	NR
Pelargonic Acid	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Pentachloroethane	100°F (38°C)	100°F (38°C)			
Pentane	NR	NR	NR	NR	NR

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Perchloric Acid	100°F (38°C)	100°F (38°C)			
Perchloroethylene	100°F (38°C)	100°F (38°C)			
Petroleum Ether	NT	NT	NT	NT	NT
Petroleum Oil	NT	NT	NT	NT	NT
Phenol (Carbolic Acid)	NR	NR	NR	NR	NR
Phenolsulfonic Acid	NT	NT	NT	NT	NT
Phosphoric Acid	NT	NT	NT	NT	NT
Phosphorous	NT	NT	NT	NT	NT
Phosphorous Acid	NT	NT	NT	NT	NT
Phosphorous Oxychloride	NR	NR	NR	NR	NR
Phosphorous Trichloride	NR	NR	NR	NR	NR
Phthalic Acid (all)	NT	NT	NT	NT	NT
Picric Acid	NR	NR	NR	NR	NR
Polyacrylic Acid	NT	NT	NT	NT	NT
Polyethylene Glycol	NT	NT	NT	NT	NT
Polymer Emulsion	NT	NT	NT	NT	NT
Polymer Mannich	NT	NT	NT	NT	NT
Polypropylene	NT	NT	NT	NT	NT
Polystyrene	NT	NT	NT	NT	NT
Polytetrafluoroethane	NT	NT	NT	NT	NT
Polyvinyl Chloride	NT	NT	NT	NT	NT
Potash Ore	NT	NT	NT	NT	NT
Potassium Acetate	NT	NT	NT	NT	NT
Potassium Bicarbonate	100°F (38°C)	100°F (38°C)			
Potassium Carbonate	NT	NT	NT	NT	NT
Potassium Chlorate	100°F (38°C)	100°F (38°C)			
Potassium Chloride	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Potassium Cyanide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Ferricyanide	NT	NT	NT	NT	NT
Potassium Fluoride	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Hydroxide	100°F (38°C)	100°F (38°C)			
Potassium Iodide	NT	NT	NT	NT	NT
Potassium Nitrate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Potassium Permanganate	100°F (38°C)	100°F (38°C)			
Potassium Persulfate	100°F (38°C)	100°F (38°C)			
Potassium Sulfate	100°F (38°C)	100°F (38°C)			
Propanediol	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Propionic Acid	NT	NT	NT	NT	NT
Propyl Acetate	NR	NR	NR	NR	NR
Propylene Glycol	100°F (38°C)	100°F (38°C)			
Pulpmill (Black Liquor)	NT	NT	NT	NT	NT
Pulpmill (Green Liquor)	100°F (38°C)	100°F (38°C)			
Pulpmill (White Liquor)	NR	NR	NR	NR	NR
Pyridine	NR	NR	NR	NR	NR
Rayon Spin Liquor	100°F (38°C)	100°F (38°C)			
Salicylaldehyde	100°F (38°C)	100°F (38°C)			
Salicylic Acid	100°F (38°C)	100°F (38°C)			
Silicic Acid	NT	NT	NT	NT	NT
Silicon Tetrachloride	100°F (38°C)	100°F (38°C)			
Silicone Fluids	NT	NT	NT	NT	NT
Silver Nitrate	100°F (38°C)	100°F (38°C)			
Skydrol	100°F (38°C)	100°F (38°C)			
Sodium Acetate	100°F (38°C)	100°F (38°C)			
Sodium Aluminate	NT	NT	NT	NT	NT
Sodium Bicarbonate	100°F (38°C)	100°F (38°C)	100°F (38°C)		

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Chemical	Intended Use (Maximum Temperature Listed)				
	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Sodium Bisulfate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Bisulfite	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Borate	NT	NT	NT	NT	NT
Sodium Bromate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Bromide (all)	NT	NT	NT	NT	NT
Sodium Carbonate	NT	NT	NT	NT	NT
Sodium Carbonate (sat'd)	NT	NT	NT	NT	NT
Sodium Carbonate (slurry)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Chlorate	NT	NT	NT	NT	NT
Sodium Chloride (sat'd) (Brine, Water (Sea), Salt Brine)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Chlorite (>6 pH)	NT	NT	NT	NT	NT
Sodium Chromate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Cyanide	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Dichromate (all)	NT	NT	NT	NT	NT
Sodium Fluoride	100°F (38°C)	100°F (38°C)			
Sodium Formate	NT	NT	NT	NT	NT
Sodium Hexametaphosphate	NT	NT	NT	NT	NT
Sodium Hydrosulfide	100°F (38°C)	100°F (38°C)			
Sodium Hydrosulfite	NT	NT	NT	NT	NT
Sodium Hydroxide (Caustic Soda)	100°F (38°C)	100°F (38°C)			
Sodium Hypochlorite (Bleach)	100°F (38°C)	100°F (38°C)			
Sodium Lauryl Sulfate	NT	NT	NT	NT	NT
Sodium Nitrate	NT	NT	NT	NT	NT
Sodium Nitrate (dry)	NT	NT	NT	NT	NT
Sodium Oxalate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Peroxide	100°F (38°C)	100°F (38°C)			

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Sodium Phosphate	NT	NT	NT	NT	NT
Sodium Polymethacrylate	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Sodium Silicate	NT	NT	NT	NT	NT
Sodium Silicofluoride	NT	NT	NT	NT	NT
Sodium Sulfide (all)	NR	NR	NR	NR	NR
Sodium Sulfite	NR	NR	NR	NR	NR
Sodium Tartrate	100°F (38°C)	100°F (38°C)			
Sodium Thiosulfate	NT	NT	NT	NT	NT
Sodium Tripolyphosphate	NT	NT	NT	NT	NT
Solvesso 100	NT	NT	NT	NT	NT
Sorbital (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Soya Fatty Acids	NT	NT	NT	NT	NT
Soybean Oil (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Stannic Chloride (all)	NT	NT	NT	NT	NT
Stannous Chloride (all)	NT	NT	NT	NT	NT
Starch	NT	NT	NT	NT	NT
Stearic Acid (conc)	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Styrene	NR	NR	NR	NR	NR
Sugars (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Sulfamic Acid	100°F (38°C)	100°F (38°C)			
Sulfite Liquor (paper industry)	100°F (38°C)	100°F (38°C)			
Sulfur Dioxide (dry)	NT	NT	NT	NT	NT
Sulfur Dioxide (wet)	100°F (38°C)	100°F (38°C)			
Sulfur Trioxide (dry)	NT	NT	NT	NT	NT
Sulfur Trioxide (wet)	100°F (38°C)	100°F (38°C)			
Sulfuric Acid (Sulphuric Acid)	100°F (38°C)	100°F (38°C)			
Sulfurous Acid	NT	NT	NT	NT	NT

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Sunflower Oil (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Tall Oil	100°F (38°C)	100°F (38°C)			
Tall Oil (fatty acid)	NT	NT	NT	NT	NT
Tallow	NT	NT	NT	NT	NT
Tannic Acid	NT	NT	NT	NT	NT
Tartaric Acid	100°F (38°C)	100°F (38°C)			
Tertiary-Amyl Methyl Ether (TAME)	NT	NT	NT	NT	NT
Tetrachloroethane	NR	NR	NR	NR	NR
Tetrachloroethylene	NT	NT	NT	NT	NT
Tetrahydrofuran	NT	NT	NT	NT	NT
Tetrahydrofurfuryl Alcohol	NT	NT	NT	NT	NT
Tetrasodium Pyrophosphate	NT	NT	NT	NT	NT
Thionyl Chloride	NR	NR	NR	NR	NR
Thionyl Chloride (water solution)	NT	NT	NT	NT	NT
Toluene	100°F (38°C)	100°F (38°C)			
Toluenesulfonic Acid	NR	NR	NR	NR	NR
Toluidine	NR	NR	NR	NR	NR
Transmission Fluid	NR	NR	NR	NR	NR
Trichloroacetic Acid	100°F (38°C)	100°F (38°C)			
Trichlorobenzene	100°F (38°C)	100°F (38°C)			
Trichloroethylene	NR	NR	NR	NR	NR
Trichlorofluoroethane	NT	NT	NT	NT	NT
Tricresyl Phosphate	NR	NR	NR	NR	NR
Triethanolamine (TEA)	NR	NR	NR	NR	NR
Triethyl Phosphite	NR	NR	NR	NR	NR
Triethylamine	NR	NR	NR	NR	NR
Triethylene Glycol	NT	NT	NT	NT	NT
Triethylenetetramine	NR	NR	NR	NR	NR

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	Occasional Contact	Frequent Contact	Secondary Containment	Cargo Immersion	Immersion Service
Trisodium Phosphate (Sodium Phosphate (Tribasic))	100°F (38°C)	100°F (38°C)			
Turpentine	NR	NR	NR	NR	NR
Urea	100°F (38°C)	100°F (38°C)	100°F (38°C)		
Urea Ammonium Nitrate	NT	NT	NT	NT	NT
Vegetable Oil (non-food contact) <sup>1</sup>	NR	NR	NR	NR	NR
Vinegar (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Vinyl Chloride	NR	NR	NR	NR	NR
Vinyl Trichloride	NT	NT	NT	NT	NT
Water (deionized, non-potable) (Water (Demineralized, Non-potable))	100°F (38°C)	100°F (38°C)			
Water (distilled, non-potable)	100°F (38°C)	100°F (38°C)			
Water (fresh, non-potable)	NT	NT	NT	NT	NT
Whiskey (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Wine (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Xylene	NR	NR	NR	NR	NR
Yeast (non-food contact) <sup>1</sup>	NT	NT	NT	NT	NT
Zinc Bromide	NT	NT	NT	NT	NT
Zinc Chloride	NT	NT	NT	NT	NT
Zinc Phosphate (dry)	NT	NT	NT	NT	NT
Zinc Plating (Acid Fluoborate)	100°F (38°C)	100°F (38°C)			
Zinc Plating (Acid Sulfate)	NR	NR	NR	NR	NR
Zinc Plating (Cyanide)	100°F (38°C)	100°F (38°C)			
Zinc Sulfate	NT	NT	NT	NT	NT

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