



TK555T LY

# Tychem® 10000

DuPont™ Tychem® 10000 Encapsulated Level A Suit. Expanded Back, Rear Entry. Extra-Wide Visor, 3 Layers: 40 mil PVC / Teflon® 5 mil / 20 mil PVC. Attached Dual Layer Gloves Internal: Multi-layer laminate / External: Butyl. Attached Socks with Outer Boot Flaps. Double Storm Flap with Hook & Loop Closure. Two Exhaust Valves. Double Taped Seams. Lime Yellow.

| Name              | Description                               |
|-------------------|-------------------------------------------|
| Full Part Number  | TK555TLYxx000100                          |
| Fabric / Material | Tychem® 10000                             |
| Design            | Encap. Level A, Expanded Back, Rear Entry |
| Seam              | Double Taped                              |
| Color             | Lime Yellow                               |
| Quantity/Box      | 1 per case                                |

## **FEATURES & PRODUCT DETAILS**

Tychem® 10000 exhibits excellent chemical barrier properties and offers an extremely durable fabric that is puncture- and tear-resistant. Tychem® 10000 fabric shows at least 30 minutes of barrier protection to 322 challenge chemicals with no observed breakthrough. Tychem® 10000 is specifically developed for protection against toxic, corrosive gases, liquids and solid chemicals. This high-performance chemical barrier fabric is suited for industrial, HazMat, and domestic preparedness applications.

- Encapsulated Level A garment design is our highest level of protection from liquid splash and vapor/gas exposures for both the wearer and respiratory equipment
- Double taped seams provide strong chemical resistance against heavy liquid splashes. A sewn seam is covered, both inside and outside of garment with compatible chemical-resistant material by heat-sealing.
- Expanded faceshield provides wide 220 degree viewing angle. EX faceshield is three-layer laminate composed of 40 mil PVC/5 mil Teflon® /20 mil PVC
- Rear entry design keeps closure away from direct contact with frontal chemical exposure and provides ability to change air bottle on SCBA without removing the entire garment
- Expanded back to accommodate self-contained air breathing apparatus (SCBA)
- Vapor tight zipper. Extra long to increase garment opening and aid donning and doffing
- Storm flap covers zipper which can be secured by the wearer with rugged hook and loop material to prevent intrusion at zipper
- Attached internal gloves composed of five layer laminate film for a broad range of chemical protection
- Butyl B 161 gloves provide mechanical and physical durability to help protect inner glove. Gloves are attached with vapor tight ring and clamp system and are replaceable.
- Integrated socks composed of garment material
- Attached flaps are designed to cover boot tops to help reduce potential for liquid intrusion
- Two exhaust valves release higher pressure inside encapsulating garments while simultaneously helping to prevent inward leakage of external vapors or particles into the garment. One-way valves are positive pressure and open on demand. Valves include splash covers made of barrier material to help prevent liquid intrusion. Valves are located on left back of head and right lower back.
- Internal adjustable waist belt system for support and improved fit
- Additional barrier material sewn at knees and over taped for added abrasion resistance when kneeling or crawling
- Each suit has a unique serial number and is fully tested at time of manufacture including positive air pressure integrity testing per ASTM F1052.
- Pass-thrus are optional and can be installed upon request when ordering. Some suits are available with optional pass-thrus to accommodate the following SCBA manufacturers: Scott, Interspiro, MSA, Draeger, Survivair®. Please call Customer Service 1-800-931-3456 for additional information.
- Made in the USA, North American Free Trade Agreement (NAFTA) compliant and Trade Agreement Act (TAA) compliant

**FINISHED DIMENSIONS**

| <b>Size</b> | <b>Sleeve Length</b> | <b>Chest Width</b> | <b>Inseam</b> | <b>Fits Chest</b> | <b>Fits Height</b> | <b>Inner Glove Size</b> | <b>Outer Glove Size</b> |
|-------------|----------------------|--------------------|---------------|-------------------|--------------------|-------------------------|-------------------------|
| MD          | 28                   | 29 1/4             | 30            | 45 1/4 - 48 3/4   | 5'0" - 5'9"        | 11                      | 10                      |
| LG          | 29                   | 30                 | 31            | 46 3/4 - 50 1/4   | 5'9" - 6'3"        | 11                      | 10                      |
| XL          | 29                   | 30                 | 31            | 46 3/4 - 50 1/4   | 5'9" - 6'3"        | 11                      | 10                      |
| 2X          | 31                   | 31 1/2             | 32 1/2        | 49 3/4 - 53 1/4   | 6'3" - 6'5"        | 11                      | 10                      |
| 3X          | 31                   | 31 1/2             | 32 1/2        | 49 3/4 - 53 1/4   | 6'3" - 6'5"        | 11                      | 10                      |
| 4X          | 32 1/2               | 33                 | 34 1/2        | 52 3/4 - 56 1/4   | 6'5" - 6'7"        | 11                      | 10                      |

## **ADDITIONAL EQUIPMENT NEEDED**

- Wear other appropriate PPE such as, but not limited to, respiratory, eye, head, hand, and foot protection based on the hazard assessment.
- Suffocation hazard exists. An appropriate open-circuit self-contained breathing apparatus (SCBA) or air-line supplied respirator must be worn with all encapsulating garments.
- Wear separate appropriate outer footwear over the garment sock. This garment has attached socks made of garment material. These socks are not suitable to used as outer footwear. They do not have adequate durability or slip resistance to be worn as the outer foot covering.
- Please read, understand and follow the Tychem® User Manual.



## Physical Properties



Data relating to mechanical performance of the fabrics used in DuPont chemical protective clothing, listed for the selected garment according to the test methods and relevant European standard, if applicable. Such properties, including abrasion and flex-cracking resistance, tensile strength and puncture resistance can help in the assessment of protective performance.

| Property                         | Test Method | Typical Result        | EN |
|----------------------------------|-------------|-----------------------|----|
| Basis Weight                     | ASTM D3776  | 12 oz/yd <sup>2</sup> |    |
| Breaking Strength - Grab (CD)    | ASTM D5034  | 170 lb <sub>f</sub>   |    |
| Breaking Strength - Grab (MD)    | ASTM D5034  | 151 lb <sub>f</sub>   |    |
| Burst Strength - Ball            | ASTM D3787  | 185 lb <sub>f</sub>   |    |
| Tear Resistance - Trap Tear (CD) | ASTM D5733  | 56 lb <sub>f</sub>    |    |
| Tear Resistance - Trap Tear (MD) | ASTM D5733  | 75 lb <sub>f</sub>    |    |
| Thickness                        | ASTM D1777  | 28 mils               |    |
| Wearing Apparel Flammability     | 16 CFR 1610 | Class 1               |    |

## PERMEATION DATA

Permeation is the process by which a solid, liquid or gaseous chemical moves through a protective clothing fabric at a molecular level. Permeation data assist in the selection of the most appropriate protective garment for a particular application and in the estimation of how long it can be safely worn. Standardised test methods are used to determine the resistance of DuPont materials to permeation, the results of which can be selected according to a specific chemical, chemical class or fabric.

| Hazard / Chemical Name            | Physical State | CAS       | BT Act | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|-----------------------------------|----------------|-----------|--------|--------|--------|----|---------|--------|---------|----------|-----|
| Acetaldehyde                      | Liquid         | 75-07-0   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Acetic acid (>95%)                | Liquid         | 64-19-7   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Acetic acid 2 ethoxy ethyl ester  | Liquid         | 111-15-9  | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Acetic acid 2 methoxy ethyl ester | Liquid         | 110-49-6  | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Acetic acid ethenyl ester         | Liquid         | 108-05-4  | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Acetic acid ethyl ester           | Liquid         | 141-78-6  | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Acetic acid pentyl ester          | Liquid         | 628-63-7  | >480   | >480   | >480   | 6  | <0.003  | 0.003  | <1.4    | >480     | 6   |
| Acetic anhydride                  | Liquid         | 108-24-7  | >480   | >480   | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Acetic chloride                   | Liquid         | 75-36-5   |        | >480   | >480   | 6  | <0.0126 | 0.0126 |         |          |     |
| Acetone                           | Liquid         | 67-64-1   | >480   | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Acetone cyanohydrin               | Liquid         | 75-86-5   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Acetonitrile                      | Liquid         | 75-05-8   | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Acetyl chloride                   | Liquid         | 75-36-5   |        | >480   | >480   | 6  | <0.0126 | 0.0126 |         |          |     |
| Acroleic acid                     | Liquid         | 79-10-7   | >480   | >480   | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Acrolein                          | Liquid         | 107-02-8  | >480   | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Acrylamide (50%)                  | Liquid         | 79-06-1   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Acrylic acid                      | Liquid         | 79-10-7   | >480   | >480   | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Acrylic acid ethyl ester          | Liquid         | 140-88-5  | >480   | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Acrylic acid n-butyl ester        | Liquid         | 141-32-2  | >480   | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Acrylicamide (50%)                | Liquid         | 79-06-1   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Acrylonitrile                     | Liquid         | 107-13-1  | >480   | >480   | >480   | 6  | <0.0003 | 0.0003 |         |          |     |
| Adipic acid dinitrile             | Liquid         | 111-69-3  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Adipic acid nitrile               | Liquid         | 111-69-3  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Adiponitrile                      | Liquid         | 111-69-3  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Adipyl dinitrile                  | Liquid         | 111-69-3  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Allyl alcohol                     | Liquid         | 107-18-6  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Allyl chloride                    | Liquid         | 107-05-1  | >480   | >480   | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Amido sulfonic acid (15%)         | Liquid         | 5329-14-6 | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Amino 2-methylpropane, 2-         | Liquid         | 75-64-9   | >480   | >480   | >480   | 6  | <0.03   | 0.03   | <14.4   | >480     | 6   |
| Amino 3,4-dichlorobenzene, 1-     | Solid          | 95-76-1   | >480   | >480   | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |



| Hazard / Chemical Name                         | Physical State | CAS        | BT Act   | BT 0.1   | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|------------------------------------------------|----------------|------------|----------|----------|--------|----|---------|--------|---------|----------|-----|
| Amino 3,4-dichlorobenzene, 1- (70 °C, molten)  | Liquid         | 95-76-1    | 128*/216 | 216*/284 |        |    | 2.4     | 0.001  |         |          |     |
| Amino benzene                                  | Liquid         | 62-53-3    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Amino ethanol, 2-                              | Liquid         | 141-43-5   | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Amino ethylethanolamine                        | Liquid         | 111-41-1   | >480     | >480     | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Amino ethylethanolamine (60%)                  | Liquid         | 111-41-1   | >480     | >480     | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Amino ethylpiperazine                          | Liquid         | 140-31-8   | >480     | >480     | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Amino propane, 2-                              | Liquid         | 75-31-0    | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ammonia (-70 °C, liquid)                       | Liquid         | 7664-41-7  | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Ammonia (gaseous)                              | Vapor          | 7664-41-7  | >480     | >480     | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ammonium fluoride (40%)                        | Liquid         | 12125-01-8 |          | >480     | >480   | 6  | <0.1    | 0.01   |         |          |     |
| Ammonium hydroxide (28% - 30%)                 | Liquid         | 1336-21-6  | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Amyl acetate, n-                               | Liquid         | 628-63-7   | >480     | >480     | >480   | 6  | <0.003  | 0.003  | <1.4    | >480     | 6   |
| Amyl ester acetic acid                         | Liquid         | 628-63-7   | >480     | >480     | >480   | 6  | <0.003  | 0.003  | <1.4    | >480     | 6   |
| Aniline                                        | Liquid         | 62-53-3    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Arsine                                         | Vapor          | 7784-42-1  | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Aziridine                                      | Liquid         | 151-56-4   | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Azolidine                                      | Liquid         | 123-75-1   | 407      | 413      |        |    | 9.2     | 0.012  |         |          |     |
| Benzenamine                                    | Liquid         | 62-53-3    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Benzene                                        | Liquid         | 71-43-2    | >480     | >480     | >480   | 6  | <0.0008 | 0.0008 | <0.48   | >480     | 6   |
| Benzene carbonyl chloride                      | Liquid         | 98-88-4    | >480     | >480     | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Benzene sulfone chloride                       | Liquid         | 98-09-9    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Benzene sulfonyl chloride                      | Liquid         | 98-09-9    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Benzene thiol                                  | Liquid         | 108-98-5   | >480     | >480     | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Benzidine (25% in Methanol)                    | Liquid         | 92-87-5    | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Benzidine (75% in Methanol)                    | Liquid         | 92-87-5    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Benzo nitrile                                  | Liquid         | 100-47-0   | >480     | >480     | >480   | 6  | <0.004  | 0.004  | <1.9    | >480     | 6   |
| Benzoyl chloride                               | Liquid         | 98-88-4    | >480     | >480     | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Benzyl chloride                                | Liquid         | 100-44-7   | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Biphenyl 4,4'-diamine, 1,1'- (25% in Methanol) | Liquid         | 92-87-5    | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Biphenyl 4,4'-diamine, 1,1'- (75% in Methanol) | Liquid         | 92-87-5    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |

| Hazard / Chemical Name                  | Physical State | CAS        | BT Act   | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR    | Cum 480 | Time 150 | ISO |
|-----------------------------------------|----------------|------------|----------|--------|--------|----|---------|---------|---------|----------|-----|
| Bis (4-(2,3-epoxypropoxy)phenyl)propane | Liquid         | 1675-54-3  | >480     | >480   | >480   | 6  | <0.01   | 0.01    | <4.8    | >480     | 6   |
| Bis phenol A diglycidyl ether           | Liquid         | 1675-54-3  | >480     | >480   | >480   | 6  | <0.01   | 0.01    | <4.8    | >480     | 6   |
| Black Liquor (mix)                      | Liquid         | mix        | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Boron fluoride ethyl ether              | Liquid         | 109-63-7   | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Boron trichloride                       | Vapor          | 10294-34-5 |          | >480   | >480   | 6  | <0.1    | 0.00118 |         |          |     |
| Boron trifluoride                       | Vapor          | 7637-07-2  | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Boron trifluoride diethyl etherate      | Liquid         | 109-63-7   | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Boron trifluoride etherate              | Liquid         | 109-63-7   | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Bromine                                 | Liquid         | 7726-95-6  | 15       | 15     | 15     | 1  | 25      | 0.01    |         |          |     |
| Bromine (10 g/m <sup>2</sup> )          | Liquid         | 7726-95-6  | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Bromine (sat vapour)                    | Vapor          | 7726-95-6  | 30*/40   | 30*/40 | 30*/40 | 1  | >0.59   | 0.1     |         |          |     |
| Bromo 4-fluorobenzene, 1-               | Liquid         | 460-00-4   | >480     | >480   | >480   | 6  | <0.0013 | 0.0013  | <0.6    | >480     | 6   |
| Bromo fluorobenzene, 4-                 | Liquid         | 460-00-4   | >480     | >480   | >480   | 6  | <0.0013 | 0.0013  | <0.6    | >480     | 6   |
| Bromo methane                           | Vapor          | 74-83-9    | >480     | >480   | >480   | 6  | <0.01   | 0.01    | <4.8    | >480     | 6   |
| Butadiene, 1,3- (0 °C, liquid)          | Liquid         | 106-99-0   | >180     | >180   | >180   | 4  | <0.01   | 0.01    | <4.8    | >480     | 6   |
| Butadiene, 1,3- (gaseous)               | Vapor          | 106-99-0   | >480     | >480   | >480   | 6  | <0.05   | 0.05    | <24     | >480     | 6   |
| Butanal, n-                             | Liquid         | 123-72-8   | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Butanol, 1-                             | Liquid         | 71-36-3    | >480     | >480   | >480   | 6  | <0.002  | 0.002   | <1      | >480     | 6   |
| Butanol, n-                             | Liquid         | 71-36-3    | >480     | >480   | >480   | 6  | <0.002  | 0.002   | <1      | >480     | 6   |
| Butanone                                | Liquid         | 78-93-3    | >480     | >480   | >480   | 6  | <0.0067 | 0.0067  | <3.2    | >480     | 6   |
| Butanone oxime, 2-                      | Liquid         | 96-29-7    | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Butenal, 2-                             | Liquid         | 123-73-9   |          | >480   | >480   | 6  | <0.1    | 0.006   |         |          |     |
| Butyl acetate, n-                       | Liquid         | 123-86-4   | >480     | >480   | >480   | 6  | <0.01   | 0.01    | <4.8    | >480     | 6   |
| Butyl acrylate, n-                      | Liquid         | 141-32-2   | >480     | >480   | >480   | 6  | <0.02   | 0.02    | <9.6    | >480     | 6   |
| Butyl alcohol, n-                       | Liquid         | 71-36-3    | >480     | >480   | >480   | 6  | <0.002  | 0.002   | <1      | >480     | 6   |
| Butyl amine                             | Liquid         | 109-73-9   | >480     | >480   | >480   | 6  | <0.01   | 0.01    | <4.8    | >480     | 6   |
| Butyl amine, tert-                      | Liquid         | 75-64-9    | >480     | >480   | >480   | 6  | <0.03   | 0.03    | <14.4   | >480     | 6   |
| Butyl ether, n-                         | Liquid         | 142-96-1   | 228*/396 | >480   | >480   | 6  | 0.001   | 0.001   |         |          |     |
| Butyraldehyde, n-                       | Liquid         | 123-72-8   | >480     | >480   | >480   | 6  | <0.1    | 0.1     | <48     | >480     | 6   |
| Carbon disulfide                        | Liquid         | 75-15-0    | >480     | >480   | >480   | 6  | <0.05   | 0.05    | <24     | >480     | 6   |

| Hazard / Chemical Name                 | Physical State | CAS        | BT Act | BT 0.1   | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|----------------------------------------|----------------|------------|--------|----------|--------|----|---------|--------|---------|----------|-----|
| Carbon monoxide                        | Vapor          | 630-08-0   | 330    | 330      | >480   | 6  | 0.1     | 0.1    |         |          |     |
| Carbon tetrachloride                   | Liquid         | 56-23-5    | >480   | >480     | >480   | 6  | <0.015  | 0.015  | <7.2    | >480     | 6   |
| Carbon tetrafluoride                   | Vapor          | 75-73-0    | >480   | >480     | >480   | 6  | <0.0177 | 0.0177 | <8.5    | >480     | 6   |
| Caustic ammonia (28% - 30%)            | Liquid         | 1336-21-6  | >480   | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Caustic soda (50%)                     | Liquid         | 1310-73-2  | >480   | >480     | >480   | 6  | <0.03   | 0.03   | <14.4   | >480     | 6   |
| Cellosolve acetate                     | Liquid         | 110-80-5   | >480   | >480     | >480   | 6  | <0.008  | 0.008  | <3.8    | >480     | 6   |
| Chlor allylene                         | Liquid         | 107-05-1   | >480   | >480     | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Chlordane (60-75%)                     | Liquid         | 57-74-9    | >480   | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Chlorine (-70 °C, liquid)              | Liquid         | 7782-50-5  | >480   | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Chlorine (gaseous)                     | Vapor          | 7782-50-5  | >480   | >480     | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Chlorine sulfide                       | Liquid         | 10545-99-0 | 440    | 440      | >480   | 6  | <0.3    | 0.1    | <48     | >480     | 6   |
| Chlorine sulfide (80%)                 | Liquid         | 10545-99-0 | >480   | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Chlorine trifluoride                   | Vapor          | 7790-91-2  | 45     | 45       | 45     | 2  | 96      | 0.1    |         |          |     |
| Chloro 1,2-propanediol, 3-             | Liquid         | 96-24-2    |        | >480     | >480   | 6  | <0.0142 | 0.0142 |         |          |     |
| Chloro 1-methylbenzene, 2-             | Liquid         | 95-49-8    | >480   | >480     | >480   | 6  | <0.0001 | 0.0001 | <0.04   | >480     | 6   |
| Chloro 2,3-epoxy propane, 1-           | Liquid         | 106-89-8   | >480   | >480     | >480   | 6  | <0.014  | 0.014  | <6.7    | >480     | 6   |
| Chloro acetic acid (80%)               | Liquid         | 79-11-8    |        | >480     | >480   | 6  | <0.01   | 0.01   |         |          |     |
| Chloro acetyl chloride                 | Liquid         | 79-04-9    | 160    | 160      | 170    | 4  | 23.2    | 0.1    |         |          |     |
| Chloro aniline, p-                     | Solid          | 106-47-8   | >480   | >480     | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Chloro aniline, p- (70 °C, molten)     | Liquid         | 106-47-8   | 272    | 272*/323 | 355    | 5  | 9.4     | 0.001  |         |          |     |
| Chloro benzenamine, 4-                 | Solid          | 106-47-8   | >480   | >480     | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Chloro benzenamine, 4- (70 °C, molten) | Liquid         | 106-47-8   | 272    | 272*/323 | 355    | 5  | 9.4     | 0.001  |         |          |     |
| Chloro benzene                         | Liquid         | 108-90-7   | >480   | >480     | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Chloro ethanol, 2-                     | Liquid         | 107-07-3   | >480   | >480     | >480   | 6  | <0.0082 | 0.0082 | <3.9    | >480     | 6   |
| Chloro ethene                          | Vapor          | 75-01-4    | >480   | >480     | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Chloro form                            | Liquid         | 67-66-3    | >480   | >480     | >480   | 6  | <0.0037 | 0.0037 | <1.7    | >480     | 6   |
| Chloro methyl methyl ether             | Liquid         | 107-30-2   | 305    | >480     | >480   | 6  | 0.03    | 0.001  |         |          |     |
| Chloro phenol, p- (sat in Methanol)    | Liquid         | 106-48-9   | >480   | >480     | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Chloro prene, 3-                       | Liquid         | 107-05-1   | >480   | >480     | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Chloro toluene, alpha-                 | Liquid         | 100-44-7   | >480   | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |

| Hazard / Chemical Name                                     | Physical State | CAS        | BT Act | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|------------------------------------------------------------|----------------|------------|--------|--------|--------|----|---------|--------|---------|----------|-----|
| Chloro toluene, o-                                         | Liquid         | 95-49-8    | >480   | >480   | >480   | 6  | <0.0001 | 0.0001 | <0.04   | >480     | 6   |
| Chlorsulfonic acid                                         | Liquid         | 7790-94-5  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Chromic acid (CrO3) (44.9%)                                | Liquid         | 1333-82-0  | >480   | >480   | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Cresols, mixed isomers                                     | Liquid         | 1319-77-3  | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Cresylic acid                                              | Liquid         | 1319-77-3  | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Croton aldehyde                                            | Liquid         | 123-73-9   |        | >480   | >480   | 6  | <0.1    | 0.006  |         |          |     |
| Crude oil, California                                      | Liquid         | 8002-05-9  | >480   | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Cumene                                                     | Liquid         | 98-82-8    | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Cyanide chloride (20% in Toluene)                          | Liquid         | 108-77-0   | >480   | >480   | >480   | 6  | <0.10   | 0.1    | <48     | >480     | 6   |
| Cyanobenzene                                               | Liquid         | 100-47-0   | >480   | >480   | >480   | 6  | <0.004  | 0.004  | <1.9    | >480     | 6   |
| Cyanoethylene                                              | Liquid         | 107-13-1   | >480   | >480   | >480   | 6  | <0.0003 | 0.0003 |         |          |     |
| Cyanomethane                                               | Liquid         | 75-05-8    | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Cyanopropan-2-ol, 2-                                       | Liquid         | 75-86-5    | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Cyclo hexane                                               | Liquid         | 110-82-7   | >480   | >480   | >480   | 6  | <0.0028 | 0.0028 | <1.3    | >480     | 6   |
| Cyclo hexanone                                             | Liquid         | 108-94-1   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| DEHP                                                       | Liquid         | 117-81-7   | >480   | >480   | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Diaminobiphenyl, 4,4'- (25% in Methanol)                   | Liquid         | 92-87-5    | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Diaminobiphenyl, 4,4'- (75% in Methanol)                   | Liquid         | 92-87-5    | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Diaminodiphenyl, p- (25% in Methanol)                      | Liquid         | 92-87-5    | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Diaminodiphenyl, p- (75% in Methanol)                      | Liquid         | 92-87-5    | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Diaminodiphenylmethane, 4,4'-                              | Liquid         | 101-77-9   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <4.8    | >480     | 6   |
| Diaminodiphenylmethane, 4,4'- (15% in Methyl Ethyl Ketone) | Liquid         | 101-77-9   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Diaminoethane, 1,2-                                        | Liquid         | 107-15-3   | >480   | >480   | >480   | 6  | <0.0097 | 0.0097 | <4.7    | >480     | 6   |
| Diborane (10%)                                             | Vapor          | 19287-45-7 |        | >480   | >480   | 6  | <0.1    | 0.0045 |         |          |     |
| Dibromoethane, 1,2-                                        | Liquid         | 106-93-4   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Dichlorbenzen, 1,2-                                        | Liquid         | 95-50-1    | >480   | >480   | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Dichlorbenzen, 1,3-                                        | Liquid         | 541-73-1   | >480   | >480   | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Dichlorbenzen, 1,4- (50% in Ethanol)                       | Liquid         | 106-46-7   | 251    | >480   | >480   | 6  | <0.02   | 0.005  | <0.9    | >480     | 6   |
| Dichlorethane, 1.2.-                                       | Liquid         | 107-06-2   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Dichloro -2-propanone, 1,3- (95% at 40 °C, molten)         | Liquid         | 534-07-6   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |

| Hazard / Chemical Name                                     | Physical State | CAS        | BT Act   | BT 0.1   | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|------------------------------------------------------------|----------------|------------|----------|----------|--------|----|---------|--------|---------|----------|-----|
| Dichloro -4,4'-methylenedianiline, 2,2'- (sat in Methanol) | Liquid         | 101-14-4   | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Dichloro -6-isopropyl-S-triazine, 2,4- (22% in Toluene)    | Liquid         | 30894-74-7 | >480     | >480     | >480   | 6  | <0.10   | 0.1    | <48     | >480     | 6   |
| Dichloro acetone, 1,3- (95% at 40 °C, molten)              | Liquid         | 534-07-6   | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Dichloro acetyl chloride                                   | Liquid         | 79-36-7    | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Dichloro aniline, 3,4-                                     | Solid          | 95-76-1    | >480     | >480     | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Dichloro aniline, 3,4- (70 °C, molten)                     | Liquid         | 95-76-1    | 128*/216 | 216*/284 |        |    | 2.4     | 0.001  |         |          |     |
| Dichloro ethyl ether                                       | Liquid         | 111-44-4   | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Dichloro ethylene, 1,1-                                    | Liquid         | 75-35-4    | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Dichloro methane                                           | Liquid         | 75-09-2    | >480     | >480     | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Dichloro propene, 2,3-                                     | Liquid         | 78-88-6    | >480     | >480     | >480   | 6  | <0.0081 | 0.0081 | <3.8    | >480     | 6   |
| Dichloro silane                                            | Vapor          | 4109-96-0  | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Dicyanobutane, 1,4-                                        | Liquid         | 111-69-3   | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Diesel Fuel Grade D-2                                      | Liquid         | mix        | >480     | >480     | >480   | 6  | <0.03   | 0.03   | <14.4   | >480     | 6   |
| Diesel fuel                                                | Liquid         | 68334-30-5 | >480     | >480     | >480   | 6  | <0.03   | 0.03   | <14.4   | >480     | 6   |
| Diethyl amine                                              | Liquid         | 109-89-7   | >480     | >480     | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Diethyl aniline, N,N-                                      | Liquid         | 91-66-7    | >480     | >480     | >480   | 6  | <0.024  | 0.024  | <11.5   | >480     | 6   |
| Diethyl benzene (95%)                                      | Liquid         | 25340-17-4 | >480     | >480     | >480   | 6  | <0.022  | 0.022  | <10.6   | >480     | 6   |
| Diethyl ethanamine, N,N-                                   | Liquid         | 121-44-8   | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Diethyl ether                                              | Liquid         | 60-29-7    | >480     | >480     | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Diethyl hexyl phthalate                                    | Liquid         | 117-81-7   | >480     | >480     | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Diethyl sulfate                                            | Liquid         | 64-67-5    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Diethylene imide oxide                                     | Liquid         | 110-91-8   | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Diethylene triamine                                        | Liquid         | 111-40-0   | >480     | >480     | >480   | 6  | <0.0166 | 0.0166 | <8      | >480     | 6   |
| Diiido-1,1,2,2-tetrafluorobutane, 1,4-                     | Liquid         | 755-95-3   |          | >480     |        |    |         |        |         |          |     |
| Dimethyl acetamide, N,N-                                   | Liquid         | 127-19-5   | >480     | >480     | >480   | 6  | <0.006  | 0.006  | <2.9    | >480     | 6   |
| Dimethyl amine                                             | Vapor          | 124-40-3   | >480     | >480     | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Dimethyl aniline, N,N-                                     | Liquid         | 121-69-7   | >480     | >480     | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Dimethyl dichlorosilane                                    | Liquid         | 75-78-5    | >480     | >480     | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Dimethyl ether                                             | Vapor          | 115-10-6   | >480     | >480     | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Dimethyl formamide, N,N-                                   | Liquid         | 68-12-2    | >480     | >480     | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |

| Hazard / Chemical Name                               | Physical State | CAS        | BT Act   | BT 0.1            | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|------------------------------------------------------|----------------|------------|----------|-------------------|--------|----|---------|--------|---------|----------|-----|
| Dimethyl hydrazine, N,N-                             | Liquid         | 57-14-7    |          | >480 <sub>8</sub> |        |    |         |        |         |          |     |
| Dimethyl ketal                                       | Liquid         | 67-64-1    | >480     | >480              | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Dimethyl ketone                                      | Liquid         | 67-64-1    | >480     | >480              | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Dimethyl phenylamine, N,N-                           | Liquid         | 121-69-7   | >480     | >480              | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Dimethyl sulfate                                     | Liquid         | 77-78-1    | >480     | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Dimethyl sulfoxide                                   | Liquid         | 67-68-5    | 164*/372 | >480              | >480   | 6  | 0.003   | 0.001  | <14.4   | >480     | 6   |
| Dinitro-o-cresol, 4,6- (sat in Methanol)             | Liquid         | 534-52-1   | >480     | >480              | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Dinitrocresol (sat in Methanol)                      | Liquid         | 534-52-1   | >480     | >480              | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Dioxane, 1,4-                                        | Liquid         | 123-91-1   | >480     | >480              | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Diphenyl methane diisocyanate, 4,4'-                 | Solid          | 101-68-8   | >480     | >480              | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Diphenyl methane diisocyanate, 4,4'- (50 °C, molten) | Liquid         | 101-68-8   | >480     | >480              | >480   | 6  | <0.0403 | 0.0403 | <19.3   | >480     | 6   |
| Disodium sulfide (60% (slurry))                      | Liquid         | 1313-82-2  |          | >480              | >480   | 6  | <0.1    | 0.052  |         |          |     |
| Disulphur dichloride                                 | Liquid         | 10025-67-9 | >480     | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Epichlorohydrin                                      | Liquid         | 106-89-8   | >480     | >480              | >480   | 6  | <0.014  | 0.014  | <6.7    | >480     | 6   |
| Epoxy ethane (-70 °C, liquid)                        | Liquid         | 75-21-8    | >180     | >180              | >180   | 4  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Epoxy ethane (0 °C, liquid)                          | Liquid         | 75-21-8    | >480     | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Epoxy ethane (10% in HCFC)                           | Vapor          | 75-21-8    | >480     | >480              | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Epoxy ethane (gaseous)                               | Vapor          | 75-21-8    | >480     | >480              | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Epoxy propane, 1,2-                                  | Liquid         | 75-56-9    | >480     | >480              | >480   | 6  | <0.0016 | 0.0016 | <0.7    | >480     | 6   |
| Ethane 1,2-diol                                      | Liquid         | 107-21-1   |          | >480              | >480   | 6  | <0.1    | 0.014  |         |          |     |
| Ethane dioic acid (10.5%)                            | Liquid         | 144-62-7   | >480     | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Ethane diol dipropanoate, 1,2-                       | Liquid         | 123-73-9   |          | >480              | >480   | 6  | <0.1    | 0.006  |         |          |     |
| Ethane nitrile                                       | Liquid         | 75-05-8    | >480     | >480              | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethane thiol                                         | Liquid         | 75-08-1    | >480     | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ethane trichloride                                   | Liquid         | 79-00-5    | >480     | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Ethanol amine                                        | Liquid         | 141-43-5   | >480     | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Ethanoyl chloride                                    | Liquid         | 75-36-5    |          | >480              | >480   | 6  | <0.0126 | 0.0126 |         |          |     |
| Ethoxy ethanol, 2-                                   | Liquid         | 110-80-5   | >480     | >480              | >480   | 6  | <0.008  | 0.008  | <3.8    | >480     | 6   |
| Ethoxy ethylacetat                                   | Liquid         | 111-15-9   | >480     | >480              | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethyl Cellosolve®                                    | Liquid         | 110-80-5   | >480     | >480              | >480   | 6  | <0.008  | 0.008  | <3.8    | >480     | 6   |

| Hazard / Chemical Name                   | Physical State | CAS       | BT Act | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|------------------------------------------|----------------|-----------|--------|--------|--------|----|---------|--------|---------|----------|-----|
| Ethyl acetate                            | Liquid         | 141-78-6  | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethyl acrylate                           | Liquid         | 140-88-5  | >480   | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Ethyl amine (15 °C, liquid)              | Liquid         | 75-04-7   | >480   | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Ethyl benzene                            | Liquid         | 100-41-4  | >480   | >480   | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Ethyl chloride                           | Vapor          | 75-00-3   | >480   | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Ethyl ethanamine, N-                     | Liquid         | 109-89-7  | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethyl ether                              | Liquid         | 60-29-7   | >480   | >480   | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Ethyl glycol acetate                     | Liquid         | 111-15-9  | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethyl mercaptan                          | Liquid         | 75-08-1   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ethyl nitrile                            | Liquid         | 75-05-8   | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethyl parathion                          | Liquid         | 56-38-2   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ethylene carboxylic acid                 | Liquid         | 79-10-7   | >480   | >480   | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Ethylene chlorohydrin                    | Liquid         | 107-07-3  | >480   | >480   | >480   | 6  | <0.0082 | 0.0082 | <3.9    | >480     | 6   |
| Ethylene diamine                         | Liquid         | 107-15-3  | >480   | >480   | >480   | 6  | <0.0097 | 0.0097 | <4.7    | >480     | 6   |
| Ethylene dibromide                       | Liquid         | 106-93-4  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Ethylene dichloride                      | Liquid         | 107-06-2  | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ethylene glycol                          | Liquid         | 107-21-1  |        | >480   | >480   | 6  | <0.1    | 0.014  |         |          |     |
| Ethylene glycol mono ethyl ether acetate | Liquid         | 111-15-9  | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethylene glycol monoethyl ether          | Liquid         | 110-80-5  | >480   | >480   | >480   | 6  | <0.008  | 0.008  | <3.8    | >480     | 6   |
| Ethylene glycol monomethyl ether         | Liquid         | 109-86-4  | >480   | >480   | >480   | 6  | <0.005  | 0.005  | <4.8    | >480     | 6   |
| Ethylene glycol monomethyl ether acetate | Liquid         | 110-49-6  | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ethylene imine                           | Liquid         | 151-56-4  | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ethylene oxide (-70 °C, liquid)          | Liquid         | 75-21-8   | >180   | >180   | >180   | 4  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Ethylene oxide (0 °C, liquid)            | Liquid         | 75-21-8   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ethylene oxide (10% in HCFC)             | Vapor          | 75-21-8   | >480   | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Ethylene oxide (gaseous)                 | Vapor          | 75-21-8   | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethylene tetrachloride                   | Liquid         | 127-18-4  | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Ethylene trichloride                     | Liquid         | 79-01-6   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Fluorine                                 | Vapor          | 7782-41-4 | >480   | >480   | >480   | 6  | <0.002  | 0.002  | <1      | >480     | 6   |
| Fluorobenzene                            | Liquid         | 462-06-6  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |

| Hazard / Chemical Name                                 | Physical State | CAS        | BT Act  | BT 0.1 | BT 1.0 | EN | SSPR      | MDPR      | Cum 480 | Time 150 | ISO |
|--------------------------------------------------------|----------------|------------|---------|--------|--------|----|-----------|-----------|---------|----------|-----|
| Fluorosulfonic acid                                    | Liquid         | 7789-21-1  | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Formaldehyde (100 ppm)                                 | Vapor          | 50-00-0    | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Formalin (100 ppm)                                     | Vapor          | 50-00-0    | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Formalin (37% (10-15% Methanol))                       | Liquid         | 50-00-0    | >480    | >480   | >480   | 6  | <0.0048   | 0.0048    | <2.3    | >480     | 6   |
| Formic acid (>95%)                                     | Liquid         | 64-18-6    | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Furaldehyde, 2-                                        | Liquid         | 98-01-1    | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Furfural                                               | Liquid         | 98-01-1    | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Gasoline, leaded                                       | Liquid         | mix        | >480    | >480   | >480   | 6  | <0.56 ppm | 0.056 ppm |         |          |     |
| Gasoline, unleaded                                     | Liquid         | 86290-81-5 | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Glutaral (5%)                                          | Liquid         | 111-30-8   | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Glutaral (50%)                                         | Liquid         | 111-30-8   | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Glutaraldehyde (5%)                                    | Liquid         | 111-30-8   | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Glutaraldehyde (50%)                                   | Liquid         | 111-30-8   | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Glycol alcohol                                         | Liquid         | 107-21-1   |         | >480   | >480   | 6  | <0.1      | 0.014     |         |          |     |
| Glycol chlorohydrin                                    | Liquid         | 107-07-3   | >480    | >480   | >480   | 6  | <0.0082   | 0.0082    | <3.9    | >480     | 6   |
| Glycolic acid (sat)                                    | Liquid         | 79-14-1    | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Green Liquor (mix)                                     | Liquid         | mix        | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Hexachloro butadiene                                   | Liquid         | 87-68-3    | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Hexachloro cyclohexane, 1,2,3,4,5,6- (sat in Acetone)  | Liquid         | 58-89-9    | >480    | >480   | >480   | 6  | <0.06     | 0.06      | <28.8   | >480     | 6   |
| Hexachloro cyclohexane, 1,2,3,4,5,6- (sat in Methanol) | Liquid         | 58-89-9    | >480    | >480   | >480   | 6  | <0.1      | 0.1       | <48     | >480     | 6   |
| Hexafluoro ethane                                      | Vapor          | 76-16-4    |         | >480   | >480   | 6  | <0.1      | 0.0139    |         |          |     |
| Hexafluoro isobutylene                                 | Vapor          | 382-10-5   | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Hexamethyl disilazane                                  | Liquid         | 999-97-3   |         | >480   | >480   | 6  | <0.1      | 0.014     |         |          |     |
| Hexamethyl disilazane, 1,1,1,3,3,3-                    | Liquid         | 999-97-3   |         | >480   | >480   | 6  | <0.1      | 0.014     |         |          |     |
| Hexamethylene diamine (45 °C, molten)                  | Liquid         | 124-09-4   | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Hexamethylene diisocyanate                             | Liquid         | 822-06-0   | >480    | >480   | >480   | 6  | <0.0271   | 0.0271    | <13     | >480     | 6   |
| Hexane, n-                                             | Liquid         | 110-54-3   | >480    | >480   | >480   | 6  | <0.05     | 0.05      | <24     | >480     | 6   |
| Hexanone                                               | Liquid         | 108-94-1   | >480    | >480   | >480   | 6  | <0.01     | 0.01      | <4.8    | >480     | 6   |
| Hexone                                                 | Liquid         | 108-10-1   | 32*/120 | >480   | >480   | 6  | <0.1      | 0.001     |         |          |     |
| Hydrazine                                              | Liquid         | 302-01-2   | >480    | >480   | >480   | 6  | <0.05     | 0.05      | <24     | >480     | 6   |



| Hazard / Chemical Name                         | Physical State | CAS        | BT Act   | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|------------------------------------------------|----------------|------------|----------|--------|--------|----|---------|--------|---------|----------|-----|
| Hydrazine hydrate (51%)                        | Liquid         | 10217-52-4 | >480     | >480   | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Hydrazine hydrate (85%)                        | Liquid         | 10217-52-4 | 240*/360 | 440    | >480   | 6  | 0.06    | 0.004  |         |          |     |
| Hydriodic acid (55-57%)                        | Liquid         | 10034-85-2 | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Hydrochloric acid (37%)                        | Liquid         | 7647-01-0  | >480     | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Hydrofluoric acid (48-51%)                     | Liquid         | 7664-39-3  | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Hydrofluoric acid (70%)                        | Liquid         | 7664-39-3  | >480     | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Hydrogen bromide (gaseous)                     | Vapor          | 10035-10-6 | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Hydrogen chloride (-90 °C, liquid)             | Liquid         | 7647-01-0  | >180     | >180   | >180   | 4  | <0.1    | 0.1    | <48     | >480     | 6   |
| Hydrogen chloride (gaseous)                    | Vapor          | 7647-01-0  | >480     | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Hydrogen cyanide (21 °C, liquid)               | Liquid         | 74-90-8    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Hydrogen cyanide (27 °C, gaseous)              | Vapor          | 74-90-8    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Hydrogen fluoride (20-27 °C, gaseous)          | Vapor          | 7664-39-3  | >480     | >480   | >480   | 6  | <0.025  | 0.025  | <12     | >480     | 6   |
| Hydrogen peroxide (30%)                        | Liquid         | 7722-84-1  | >480     | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Hydrogen peroxide (70%)                        | Liquid         | 7722-84-1  | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Hydrogen selenide                              | Vapor          | 7783-07-5  |          | >480   |        |    |         |        |         |          |     |
| Hydrogen sulfide                               | Vapor          | 7783-06-4  | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Hydroxy 1-ethanethiol, 2-                      | Liquid         | 60-24-2    | >480     | >480   | >480   | 6  | <0.08   | 0.08   | <38.4   | >480     | 6   |
| Hydroxy 2-methylpropionitrile, 2-              | Liquid         | 75-86-5    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Hydroxy 2-nitrobenzene, 1- (70 °C, molten)     | Liquid         | 88-75-5    |          | 208    | >480   | 6  | 0.17    | 0.004  |         |          |     |
| Hydroxy acetic acid (sat)                      | Liquid         | 79-14-1    | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Hydroxy chlorobenzene (sat in Methanol)        | Liquid         | 106-48-9   | >480     | >480   | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Hydroxy isobutyronitrile                       | Liquid         | 75-86-5    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Hydroxy propene                                | Liquid         | 107-18-6   | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Iodomethane                                    | Liquid         | 74-88-4    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Isobutyl methyl ketone                         | Liquid         | 108-10-1   | 32*/120  | >480   | >480   | 6  | <0.1    | 0.001  |         |          |     |
| Isopropanol                                    | Liquid         | 67-63-0    | >480     | >480   | >480   | 6  | <0.0097 | 0.0097 | <4.7    | >480     | 6   |
| Isopropyl alcohol                              | Liquid         | 67-63-0    | >480     | >480   | >480   | 6  | <0.0097 | 0.0097 | <4.7    | >480     | 6   |
| Isopropyl amine                                | Liquid         | 75-31-0    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Isopropyl benzene                              | Liquid         | 98-82-8    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Isopropylidenediphenol diglycidyl ether, 4,4'- | Liquid         | 1675-54-3  | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |

| Hazard / Chemical Name                            | Physical State | CAS        | BT Act | BT 0.1            | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|---------------------------------------------------|----------------|------------|--------|-------------------|--------|----|---------|--------|---------|----------|-----|
| JP-4 Jet Fuel                                     | Liquid         | 50815-00-4 | >480   | >480              | >480   | 6  | <0.0017 | 0.0017 |         |          |     |
| JP-8 Jet Fuel                                     | Liquid         | 94114-58-6 | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Ketone propane                                    | Liquid         | 67-64-1    | >480   | >480              | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Lewisite (L), MIL-STD-282 (10 g/m <sup>2</sup> )  | Liquid         | 541-25-3   |        | >480 <sup>8</sup> |        |    |         |        |         |          |     |
| Lewisite (L), MIL-STD-282 (100 g/m <sup>2</sup> ) | Liquid         | 541-25-3   |        | >480 <sup>8</sup> |        |    |         |        |         |          |     |
| Limonene d-                                       | Liquid         | 5989-27-5  | >480   | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Lindane (sat in Acetone)                          | Liquid         | 58-89-9    | >480   | >480              | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Lindane (sat in Methanol)                         | Liquid         | 58-89-9    | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Low boiling point naphtha - unspecified           | Liquid         | 8052-41-3  | >480   | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| MEK                                               | Liquid         | 78-93-3    | >480   | >480              | >480   | 6  | <0.0067 | 0.0067 | <3.2    | >480     | 6   |
| Malathion                                         | Liquid         | 121-75-5   | >480   | >480              | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Mercapto acetic acid                              | Liquid         | 68-11-1    | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Mercapto ethanol                                  | Liquid         | 60-24-2    | >480   | >480              | >480   | 6  | <0.08   | 0.08   | <38.4   | >480     | 6   |
| Mercuric II chloride (sat)                        | Liquid         | 7487-94-7  |        | >480 <sup>8</sup> |        |    |         |        |         |          |     |
| Mercury                                           | Liquid         | 7439-97-6  | >480   | >480              | >480   | 6  | <0.09   | 0.09   | <43.2   | >480     | 6   |
| Methacrylic acid                                  | Liquid         | 79-41-4    | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methanesulfonyl chloride                          | Liquid         | 124-63-0   |        | >480              | >480   | 6  | <0.1    | 0.0006 |         |          |     |
| Methanethiol                                      | Vapor          | 74-93-1    | >480   | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Methanol                                          | Liquid         | 67-56-1    | >480   | >480              | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Methomyl (29%)                                    | Liquid         | 16752-77-5 | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Methoxy 2-methylpropane, 2-                       | Liquid         | 1634-04-4  | >480   | >480              | >480   | 6  | <0.007  | 0.007  |         |          |     |
| Methoxy chloromethane                             | Liquid         | 107-30-2   | 305    | >480              | >480   | 6  | 0.03    | 0.001  |         |          |     |
| Methoxy ethanol, 2                                | Liquid         | 109-86-4   | >480   | >480              | >480   | 6  | <0.005  | 0.005  | <4.8    | >480     | 6   |
| Methoxy ethylacetate, 2-                          | Liquid         | 110-49-6   | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl 1,5-pentanedinitrile, 2- (87%)             | Liquid         | 4553-62-2  | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Methyl 2-methyl-2-propenoate                      | Liquid         | 80-62-6    | >480   | >480              | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Methyl 2-pyrrolidon, N-                           | Liquid         | 872-50-4   | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl 4-isopropenyl-1-cyclohexene, 1-            | Liquid         | 5989-27-5  | >480   | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Methyl acetyl                                     | Liquid         | 67-64-1    | >480   | >480              | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Methyl acrolein                                   | Liquid         | 123-73-9   |        | >480              | >480   | 6  | <0.1    | 0.006  |         |          |     |

| Hazard / Chemical Name                                 | Physical State | CAS       | BT Act  | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|--------------------------------------------------------|----------------|-----------|---------|--------|--------|----|---------|--------|---------|----------|-----|
| Methyl acrylate                                        | Liquid         | 96-33-3   | >480    | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl amine (40%)                                     | Liquid         | 74-89-5   | 72      | 261    |        |    | 3.9     | 0.017  |         |          |     |
| Methyl amine (50%)                                     | Liquid         | 74-89-5   | 204     | 232    |        |    |         |        |         |          |     |
| Methyl amine (gaseous)                                 | Vapor          | 74-89-5   | >480    | >480   | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Methyl aniline, o-                                     | Liquid         | 95-53-4   | >480    | >480   | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Methyl benzol                                          | Liquid         | 108-88-3  | >480    | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Methyl bromide                                         | Vapor          | 74-83-9   | >480    | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl chloride (-70 °C, liquid)                       | Liquid         | 74-87-3   | >180    | >180   | >180   | 4  | <0.05   | 0.05   | <24     | >480     | 6   |
| Methyl chloride (gaseous)                              | Vapor          | 74-87-3   | >480    | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Methyl chloro formate                                  | Liquid         | 79-22-1   |         | >480   | >480   | 6  | <0.1    | 0.011  |         |          |     |
| Methyl chloroform                                      | Liquid         | 71-55-6   | >480    | >480   | >480   | 6  | <0.004  | 0.004  | <1.9    | >480     | 6   |
| Methyl cyanide                                         | Liquid         | 75-05-8   | >480    | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Methyl ethyl ketone                                    | Liquid         | 78-93-3   | >480    | >480   | >480   | 6  | <0.0067 | 0.0067 | <3.2    | >480     | 6   |
| Methyl ethyl ketoxime                                  | Liquid         | 96-29-7   | >480    | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Methyl fluoride                                        | Vapor          | 593-53-3  |         | >480   | >480   | 6  | <0.1    | 0.0205 |         |          |     |
| Methyl hydrazine                                       | Liquid         | 60-34-4   | >480    | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl iodide                                          | Liquid         | 74-88-4   | >480    | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl isocyanate                                      | Liquid         | 624-83-9  | >480    | >480   | >480   | 6  | <0.013  | 0.013  | <6.2    | >480     | 6   |
| Methyl ketone                                          | Liquid         | 67-64-1   | >480    | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Methyl mercaptan                                       | Vapor          | 74-93-1   | >480    | >480   | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Methyl methacrylate                                    | Liquid         | 80-62-6   | >480    | >480   | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Methyl pentan-2-one, 4-                                | Liquid         | 108-10-1  | 32*/120 | >480   | >480   | 6  | <0.1    | 0.001  |         |          |     |
| Methyl phenols                                         | Liquid         | 1319-77-3 | >480    | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl propenoic acid, 2-                              | Liquid         | 79-41-4   | >480    | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Methyl pyridine, 2-                                    | Liquid         | 109-06-8  | >480    | >480   | >480   | 6  | <0.024  | 0.024  | <11.5   | >480     | 6   |
| Methyl pyridine, 3-                                    | Liquid         | 108-99-6  | >480    | >480   | >480   | 6  | <0.024  | 0.024  | <11.5   | >480     | 6   |
| Methyl tert-butyl ether                                | Liquid         | 1634-04-4 | >480    | >480   | >480   | 6  | <0.007  | 0.007  |         |          |     |
| Methyl trichloromethane                                | Liquid         | 71-55-6   | >480    | >480   | >480   | 6  | <0.004  | 0.004  | <1.9    | >480     | 6   |
| Methyl trichlorosilane                                 | Liquid         | 75-79-6   | >480    | >480   | >480   | 6  | <0.007  | 0.007  | <3.4    | >480     | 6   |
| Methylene bis(2-Chloroaniline), 4,4- (sat in Methanol) | Liquid         | 101-14-4  | >480    | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |

| Hazard / Chemical Name                                 | Physical State | CAS        | BT Act | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|--------------------------------------------------------|----------------|------------|--------|--------|--------|----|---------|--------|---------|----------|-----|
| Methylene chloride                                     | Liquid         | 75-09-2    | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Methylene dianiline                                    | Liquid         | 101-77-9   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <4.8    | >480     | 6   |
| Methylene dianiline (15% in Methyl Ethyl Ketone)       | Liquid         | 101-77-9   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Methylene diphenyl diisocyanate, 4,4'-                 | Solid          | 101-68-8   | >480   | >480   | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Methylene diphenyl diisocyanate, 4,4'- (50 °C, molten) | Liquid         | 101-68-8   | >480   | >480   | >480   | 6  | <0.0403 | 0.0403 | <19.3   | >480     | 6   |
| Mineral oil                                            | Liquid         | 8002-05-9  | >480   | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Mineral spirit                                         | Liquid         | 64475-85-0 | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Morpholine                                             | Liquid         | 110-91-8   | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Naphthalene (25% in Diethylene glycol dimethylether)   | Liquid         | 91-20-3    | >480   | >480   | >480   | 6  | <0.007  | 0.007  | <3.4    | >480     | 6   |
| Nickel carbonyl                                        | Liquid         | 13463-39-3 | >480   | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Nicotine                                               | Liquid         | 54-11-5    | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Nitric acid (70%)                                      | Liquid         | 7697-37-2  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Nitric acid (90%)                                      | Liquid         | 7697-37-2  |        | >480   | >480   | 6  | <0.1    | 0.033  |         |          |     |
| Nitric acid (>95%)                                     | Liquid         | 7697-37-2  | 390    | 390    | 420    | 5  | 3.6     | 0.1    |         |          |     |
| Nitric acid, red fuming (90%)                          | Liquid         | 52583-42-3 |        | >480   | >480   | 6  | <0.1    | 0.033  |         |          |     |
| Nitric oxide                                           | Vapor          | 10102-43-9 | >480   | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Nitro benzene                                          | Liquid         | 98-95-3    | >480   | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Nitro methane                                          | Liquid         | 75-52-5    | >480   | >480   | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Nitro phenol, o- (70 °C, molten)                       | Liquid         | 88-75-5    |        | 208    | >480   | 6  | 0.17    | 0.004  |         |          |     |
| Nitro propane, 2-                                      | Liquid         | 79-46-9    | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Nitrogen tetroxide                                     | Liquid         | 10544-72-6 | 60     | >480   | >480   | 6  |         |        |         |          |     |
| Nitrogen tetroxide (21 °C, liquid)                     | Liquid         | 10544-72-6 | 450    | 450    | >480   | 6  | 0.2     | 0.1    |         |          |     |
| Nitrogen tetroxide (gaseous)                           | Vapor          | 10544-72-6 | 90     | 90     |        |    | >1.1    | 0.003  |         |          |     |
| Nitrogen trifluoride                                   | Vapor          | 7783-54-2  |        | >480   | >480   | 6  | <0.014  | 0.014  |         |          |     |
| Nitrous oxide                                          | Vapor          | 10024-97-2 |        | >480   | >480   | 6  | <0.018  | 0.018  |         |          |     |
| Norflurane                                             | Vapor          | 811-97-2   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Octane, n-                                             | Liquid         | 111-65-9   | >480   | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Oleum (103% (13% free SO3))                            | Liquid         | 8014-95-7  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Oleum (40% free SO3)                                   | Liquid         | 8014-95-7  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Oleum (65% free SO3)                                   | Liquid         | 8014-95-7  | >480   | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |

| Hazard / Chemical Name                  | Physical State | CAS        | BT Act | BT 0.1 | BT 1.0 | EN | SSPR   | MDPR   | Cum 480 | Time 150 | ISO |
|-----------------------------------------|----------------|------------|--------|--------|--------|----|--------|--------|---------|----------|-----|
| Oxalic acid (10.5%)                     | Liquid         | 144-62-7   | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| PCB (50% in Trichlorbenzene)            | Liquid         | mix        | >480   | >480   | >480   | 6  | 6      | 6      |         |          |     |
| Paraphenylene diisocyanate (PPDI) crude | Liquid         | 104-49-4   | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Pentachlorophenol (sat in Methanol)     | Liquid         | 87-86-5    | >480   | >480   | >480   | 6  | <0.013 | 0.013  | <6.2    | >480     | 6   |
| Pentanedial, 1,5- (5%)                  | Liquid         | 111-30-8   | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Pentanedial, 1,5- (50%)                 | Liquid         | 111-30-8   | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Pentene nitrile, 3-                     | Liquid         | 4635-87-4  | >480   | >480   | >480   | 6  | <0.001 | 0.001  | <0.48   | >480     | 6   |
| Pentene nitrile, cis-2- (70%)           | Liquid         | 25899-50-7 | >480   | >480   | >480   | 6  | <0.001 | 0.001  | <0.48   | >480     | 6   |
| Pentyl acetate                          | Liquid         | 628-63-7   | >480   | >480   | >480   | 6  | <0.003 | 0.003  | <1.4    | >480     | 6   |
| Perchloric acid (70%)                   | Liquid         | 7601-90-3  | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Perfluoro 2-propoxy propionyl fluoride  | Liquid         | 2062-98-8  | imm    | >480   | >480   | 6  | <0.04  | 0.008  | <19.2   | >480     | 6   |
| Perfluoroethane                         | Vapor          | 76-16-4    |        | >480   | >480   | 6  | <0.1   | 0.0139 |         |          |     |
| Phenethylene                            | Liquid         | 100-42-5   | >480   | >480   | >480   | 6  | <0.001 | 0.001  | <0.48   | >480     | 6   |
| Phenol (45 °C, molten)                  | Liquid         | 108-95-2   | >480   | >480   | >480   | 6  | <0.01  | 0.01   | <4.8    | >480     | 6   |
| Phenol (60 °C, molten)                  | Liquid         | 108-95-2   | 113    | 125    | 165    | 4  | <5     | 0.01   | 736     | 250      | 5   |
| Phenol (85% at 45 °C)                   | Liquid         | 108-95-2   | >480   | >480   | >480   | 6  | <0.01  | 0.01   | <4.8    | >480     | 6   |
| Phenol (85%)                            | Liquid         | 108-95-2   | >480   | >480   | >480   | 6  | <0.06  | 0.006  | <2.9    | >480     | 6   |
| Phenyl amine                            | Liquid         | 62-53-3    | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Phenyl chloride                         | Liquid         | 108-90-7   | >480   | >480   | >480   | 6  | <0.001 | 0.001  | <0.48   | >480     | 6   |
| Phenyl cyanide                          | Liquid         | 100-47-0   | >480   | >480   | >480   | 6  | <0.004 | 0.004  | <1.9    | >480     | 6   |
| Phenyl ethane                           | Liquid         | 100-41-4   | >480   | >480   | >480   | 6  | <0.005 | 0.005  | <2.4    | >480     | 6   |
| Phenyl ethanol, 1-                      | Liquid         | 98-85-1    | >480   | >480   | >480   | 6  | <0.005 | 0.005  | <2.4    | >480     | 6   |
| Phenyl mercaptan                        | Liquid         | 108-98-5   | >480   | >480   | >480   | 6  | <0.02  | 0.02   | <9.6    | >480     | 6   |
| Phenyl propane, 2-                      | Liquid         | 98-82-8    | >480   | >480   | >480   | 6  | <0.01  | 0.01   | <4.8    | >480     | 6   |
| Phenyl trichlorosilane                  | Liquid         | 98-13-5    | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Phosgene                                | Vapor          | 75-44-5    | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Phosphine                               | Vapor          | 7803-51-2  | >480   | >480   | >480   | 6  | <0.01  | 0.01   | <4.8    | >480     | 6   |
| Phosphoric acid (85%)                   | Liquid         | 7664-38-2  | >480   | >480   | >480   | 6  | <0.18  | 0.18   | <86.4   | >480     | 6   |
| Phosphorus oxychloride                  | Liquid         | 10025-87-3 | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |
| Phosphorus trichloride                  | Liquid         | 7719-12-2  | >480   | >480   | >480   | 6  | <0.1   | 0.1    | <48     | >480     | 6   |

| Hazard / Chemical Name                          | Physical State | CAS        | BT Act | BT 0.1            | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|-------------------------------------------------|----------------|------------|--------|-------------------|--------|----|---------|--------|---------|----------|-----|
| Picoline, 2-                                    | Liquid         | 109-06-8   | >480   | >480              | >480   | 6  | <0.024  | 0.024  | <11.5   | >480     | 6   |
| Picoline, 3-                                    | Liquid         | 108-99-6   | >480   | >480              | >480   | 6  | <0.024  | 0.024  | <11.5   | >480     | 6   |
| Pimelic ketone                                  | Liquid         | 108-94-1   | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Polymethylene polyphenyle isocyanate (p-MDI)    | Liquid         | 9016-87-9  | >480   | >480              | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Potassium acetate (sat)                         | Liquid         | 127-08-2   | >480   | >480 <sup>8</sup> | >480   | 6  | <0.49   | 0.49   |         |          |     |
| Potassium chromate (sat)                        | Liquid         | 7789-00-6  | >480   | >480 <sup>8</sup> | >480   | 6  | <0.51   | 0.51   |         |          |     |
| Potassium hydroxide (45%)                       | Liquid         | 1310-58-3  |        | >480              | >480   | 6  | <0.1    | 0.008  |         |          |     |
| Prop-2-en-1-al                                  | Liquid         | 107-02-8   | >480   | >480              | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Prop-2-yn-1-ol                                  | Liquid         | 107-19-7   | >480   | >480              | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Propan -2-ol                                    | Liquid         | 67-63-0    | >480   | >480              | >480   | 6  | <0.0097 | 0.0097 | <4.7    | >480     | 6   |
| Propan -2-one                                   | Liquid         | 67-64-1    | >480   | >480              | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Propargyl alcohol                               | Liquid         | 107-19-7   | >480   | >480              | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Propen 1-ol, 2-                                 | Liquid         | 107-18-6   | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Propenamide (50%)                               | Liquid         | 79-06-1    | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Propene acid                                    | Liquid         | 79-10-7    | >480   | >480              | >480   | 6  | <0.06   | 0.06   | <28.8   | >480     | 6   |
| Propenenitrile, 2-                              | Liquid         | 107-13-1   | >480   | >480              | >480   | 6  | <0.0003 | 0.0003 |         |          |     |
| Propenoic acid butyl ester, 2-                  | Liquid         | 141-32-2   | >480   | >480              | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Propenoic acid nitrile                          | Liquid         | 107-13-1   | >480   | >480              | >480   | 6  | <0.0003 | 0.0003 |         |          |     |
| Propylene aldehyde                              | Liquid         | 123-73-9   |        | >480              | >480   | 6  | <0.1    | 0.006  |         |          |     |
| Propylene dichloride                            | Liquid         | 78-87-5    | >480   | >480              | >480   | 6  |         |        |         |          |     |
| Propylene imine (90%)                           | Liquid         | 75-55-8    | 120    | 150               | >480   | 6  | 0.34    | 0.01   |         |          |     |
| Propylene oxide, 1,2-                           | Liquid         | 75-56-9    | >480   | >480              | >480   | 6  | <0.0016 | 0.0016 | <0.7    | >480     | 6   |
| Pyridine                                        | Liquid         | 110-86-1   | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Pyroacetic ether                                | Liquid         | 67-64-1    | >480   | >480              | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Pyrrolidine                                     | Liquid         | 123-75-1   | 407    | 413               |        |    | 9.2     | 0.012  |         |          |     |
| Sarin (GB), MIL-STD-282 (10 g/m <sup>2</sup> )  | Liquid         | 107-44-8   |        | >480 <sup>8</sup> |        |    |         |        |         |          |     |
| Sarin (GB), MIL-STD-282 (100 g/m <sup>2</sup> ) | Liquid         | 107-44-8   |        | >480 <sup>8</sup> |        |    |         |        |         |          |     |
| Silane                                          | Vapor          | 7803-62-5  | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Silicon tetrachloride                           | Liquid         | 10026-04-7 | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Sodium hydroxide (50%)                          | Liquid         | 1310-73-2  | >480   | >480              | >480   | 6  | <0.03   | 0.03   | <14.4   | >480     | 6   |

| Hazard / Chemical Name                                   | Physical State | CAS        | BT Act | BT 0.1            | BT 1.0 | EN | SSPR   | MDPR  | Cum 480 | Time 150 | ISO |
|----------------------------------------------------------|----------------|------------|--------|-------------------|--------|----|--------|-------|---------|----------|-----|
| Sodium hypochlorite (15%)                                | Liquid         | 7681-52-9  | >480   | >480              | >480   | 6  | <0.03  | 0.03  | <14.4   | >480     | 6   |
| Sodium metabisulphite (38%)                              | Liquid         | 7681-57-4  |        | >480              | >480   | 6  | <0.052 | 0.052 |         |          |     |
| Sodium methylate (50% in Methanol)                       | Liquid         | 124-41-4   | >480   | >480              | >480   | 6  | <0.1   | 0.1   | <48     | >480     | 6   |
| Soman (GD), MIL-STD-282 (10 g/m <sup>2</sup> )           | Liquid         | 96-64-0    |        | >480 <sup>8</sup> |        |    |        |       |         |          |     |
| Soman (GD), MIL-STD-282 (100 g/m <sup>2</sup> )          | Liquid         | 96-64-0    |        | >480 <sup>8</sup> |        |    |        |       |         |          |     |
| Stoddard solvent                                         | Liquid         | 8052-41-3  | >480   | >480              | >480   | 6  | <0.001 | 0.001 | <0.48   | >480     | 6   |
| Styrene                                                  | Liquid         | 100-42-5   | >480   | >480              | >480   | 6  | <0.001 | 0.001 | <0.48   | >480     | 6   |
| Sulfamic acid (15%)                                      | Liquid         | 5329-14-6  | >480   | >480              | >480   | 6  | <0.01  | 0.01  | <4.8    | >480     | 6   |
| Sulfamidic acid (15%)                                    | Liquid         | 5329-14-6  | >480   | >480              | >480   | 6  | <0.01  | 0.01  | <4.8    | >480     | 6   |
| Sulfur Mustard (HD), MIL-STD-282 (10 g/m <sup>2</sup> )  | Liquid         | 505-60-2   |        | >480 <sup>8</sup> |        |    |        |       |         |          |     |
| Sulfur Mustard (HD), MIL-STD-282 (100 g/m <sup>2</sup> ) | Liquid         | 505-60-2   |        | >480 <sup>8</sup> |        |    |        |       |         |          |     |
| Sulfur dioxide                                           | Vapor          | 7446-09-5  | >480   | >480              | >480   | 6  | <0.01  | 0.01  | <4.8    | >480     | 6   |
| Sulfur hexafluoride                                      | Vapor          | 2551-62-4  |        | >480              | >480   | 6  | <0.015 | 0.015 |         |          |     |
| Sulfur monochloride                                      | Liquid         | 10025-67-9 | >480   | >480              | >480   | 6  | <0.01  | 0.01  | <4.8    | >480     | 6   |
| Sulfur trioxide                                          | Liquid         | 7446-11-9  | 90     | 90                | 90     | 3  | 696    | 0.1   |         |          |     |
| Sulfuric acid (>95%)                                     | Liquid         | 7664-93-9  | >480   | >480              | >480   | 6  | <0.005 | 0.05  | <24     | >480     | 6   |
| Sulfuric acid diethyl ester                              | Liquid         | 64-67-5    | >480   | >480              | >480   | 6  | <0.1   | 0.1   | <48     | >480     | 6   |
| Sulfuric acid dimethyl ester                             | Liquid         | 77-78-1    | >480   | >480              | >480   | 6  | <0.001 | 0.001 | <0.48   | >480     | 6   |
| Sulfuric acid fuming (103% (13% free SO <sub>3</sub> ))  | Liquid         | 8014-95-7  | >480   | >480              | >480   | 6  | <0.1   | 0.1   | <48     | >480     | 6   |
| Sulfuric acid fuming (40% free SO <sub>3</sub> )         | Liquid         | 8014-95-7  | >480   | >480              | >480   | 6  | <0.1   | 0.1   | <48     | >480     | 6   |
| Sulfuric acid fuming (65% free SO <sub>3</sub> )         | Liquid         | 8014-95-7  | >480   | >480              | >480   | 6  | <0.1   | 0.1   | <48     | >480     | 6   |
| Sulfuryl chloride                                        | Liquid         | 7791-25-5  | >480   | >480              | >480   | 6  | <0.1   | 0.1   | <48     | >480     | 6   |
| Sulphur dichloride                                       | Liquid         | 10545-99-0 | 440    | 440               | >480   | 6  | <0.3   | 0.1   | <48     | >480     | 6   |
| Sulphur dichloride (80%)                                 | Liquid         | 10545-99-0 | >480   | >480              | >480   | 6  | <0.1   | 0.1   | <48     | >480     | 6   |
| Tabun (GA), MIL-STD-282 (10 g/m <sup>2</sup> )           | Liquid         | 77-81-6    |        | >480 <sup>8</sup> |        |    |        |       |         |          |     |
| Tabun (GA), MIL-STD-282 (100 g/m <sup>2</sup> )          | Liquid         | 77-81-6    |        | >480 <sup>8</sup> |        |    |        |       |         |          |     |
| Tetracarbonylnickel                                      | Liquid         | 13463-39-3 | >480   | >480              | >480   | 6  | <0.04  | 0.04  | <19.2   | >480     | 6   |
| Tetrachloro ethane, 1,1,2,2,-                            | Liquid         | 79-34-5    | >480   | >480              | >480   | 6  | <0.008 | 0.008 | <3.8    | >480     | 6   |
| Tetrachloro ethylene, 1,1,2,2,-                          | Liquid         | 127-18-4   | >480   | >480              | >480   | 6  | <0.05  | 0.05  | <24     | >480     | 6   |
| Tetrachloro methane                                      | Liquid         | 56-23-5    | >480   | >480              | >480   | 6  | <0.015 | 0.015 | <7.2    | >480     | 6   |

| Hazard / Chemical Name                            | Physical State | CAS        | BT Act   | BT 0.1 | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|---------------------------------------------------|----------------|------------|----------|--------|--------|----|---------|--------|---------|----------|-----|
| Tetraethoxysilane                                 | Liquid         | 78-10-4    |          | >480   | >480   | 6  | <0.014  | 0.014  |         |          |     |
| Tetraethyl lead                                   | Liquid         | 78-00-2    | >480     | >480   | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Tetraethylene pentamine                           | Liquid         | 112-57-2   | 306*/421 | >480   | >480   | 6  | <0.01   | 0.005  | <4.8    | >480     | 6   |
| Tetrafluoroethane, 1,1,1,2-                       | Vapor          | 811-97-2   | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Tetrafluoromethane                                | Vapor          | 75-73-0    | >480     | >480   | >480   | 6  | <0.0177 | 0.0177 | <8.5    | >480     | 6   |
| Tetrahydrofuran                                   | Liquid         | 109-99-9   | >480     | >480   | >480   | 6  | <0.04   | 0.04   | <19.2   | >480     | 6   |
| Tetramethyl ammonium hydroxide (25%)              | Liquid         | 75-59-2    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Tetramethyl tin (0.5% in Pentane)                 | Liquid         | 594-27-4   |          | >480   | >480   | 6  | <0.006  | 0.006  |         |          |     |
| Thioglycolic acid                                 | Liquid         | 68-11-1    | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Thionyl chloride                                  | Liquid         | 7719-09-7  | 90       | 90     | 90     | 3  | 63.6    | 0.1    |         |          |     |
| Titan(IV) chloride                                | Liquid         | 7550-45-0  | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Titanium tetrachloride                            | Liquid         | 7550-45-0  | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Toluene                                           | Liquid         | 108-88-3   | >480     | >480   | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Toluene diisocyanate, 1,3-                        | Liquid         | 26471-62-5 | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Toluene diisocyanate, 2,4-                        | Liquid         | 584-84-9   | >480     | >480   | >480   | 6  | <0.0216 | 0.0216 | <13.5   | >480     | 6   |
| Toluene diisocyanate, 2,4- (80%)                  | Liquid         | 584-84-9   | >480     | >480   | >480   | 6  | <0.0281 | 0.0281 | <13.5   | >480     | 6   |
| Toluidine, o-                                     | Liquid         | 95-53-4    | >480     | >480   | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Trichloro 1,2,2-trifluoroethane, 1,1,2-           | Liquid         | 76-13-1    | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Trichloro 1,3,5-triazine, 2,4,6- (20% in Toluene) | Liquid         | 108-77-0   | >480     | >480   | >480   | 6  | <0.10   | 0.1    | <48     | >480     | 6   |
| Trichloro benzene, 1,2,4-                         | Liquid         | 120-82-1   | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Trichloro ethane, 1,1,1-                          | Liquid         | 71-55-6    | >480     | >480   | >480   | 6  | <0.004  | 0.004  | <1.9    | >480     | 6   |
| Trichloro ethane, 1,1,2-                          | Liquid         | 79-00-5    | >480     | >480   | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Trichloro ethanol, 2,2,2-                         | Liquid         | 115-20-8   | >480     | >480   | >480   | 6  | <0.008  | 0.008  | <3.8    | >480     | 6   |
| Trichloro ethylene                                | Liquid         | 79-01-6    | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Trichloro methane                                 | Liquid         | 67-66-3    | >480     | >480   | >480   | 6  | <0.0037 | 0.0037 | <1.7    | >480     | 6   |
| Trichloro phenylsilane                            | Liquid         | 98-13-5    | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Trichloro silane                                  | Liquid         | 10025-78-2 |          | >480   | >480   | 6  | <0.0218 | 0.0218 |         |          |     |
| Triethyl amine                                    | Liquid         | 121-44-8   | >480     | >480   | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Triethylentetramine (60%)                         | Liquid         | 112-24-3   | >480     | >480   | >480   | 6  | <0.005  | 0.005  | <2.4    | >480     | 6   |
| Trifluoro 2-(trifluoromethyl)propene, 3,3,3-      | Vapor          | 382-10-5   | >480     | >480   | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |



| Hazard / Chemical Name                              | Physical State | CAS        | BT Act | BT 0.1            | BT 1.0 | EN | SSPR    | MDPR   | Cum 480 | Time 150 | ISO |
|-----------------------------------------------------|----------------|------------|--------|-------------------|--------|----|---------|--------|---------|----------|-----|
| Trifluoro ethanol, 2,2,2-                           | Liquid         | 75-89-8    | >480   | >480              | >480   | 6  | <0.0013 | 0.0013 | <0.6    | >480     | 6   |
| Trifluoro methane                                   | Vapor          | 75-46-7    |        | >480              | >480   | 6  | <0.0141 | 0.0141 |         |          |     |
| Trifluoro methansulfonic acid                       | Liquid         | 1493-13-6  | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Trimethyl amine                                     | Vapor          | 75-50-3    | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Trimethyl aminomethane                              | Liquid         | 75-64-9    | >480   | >480              | >480   | 6  | <0.03   | 0.03   | <14.4   | >480     | 6   |
| Trimethyl phosphate                                 | Liquid         | 512-56-1   | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Trimethyl phosphite                                 | Liquid         | 121-45-9   | >480   | >480              | >480   | 6  | <0.02   | 0.02   | <9.6    | >480     | 6   |
| Tripropyl amine                                     | Liquid         | 102-69-2   | >480   | >480              | >480   | 6  | <0.07   | 0.07   | <33.6   | >480     | 6   |
| Tungsten hexafluoride                               | Vapor          | 7783-82-6  |        | >480              | >480   | 6  | <0.0259 | 0.0259 |         |          |     |
| VM & P Naphtha                                      | Liquid         | 8030-30-6  | >480   | >480              | >480   | 6  | <0.0201 | 0.0201 | <9.6    | >480     | 6   |
| VX Nerve Agent, MIL-STD-282 (10 g/m <sup>2</sup> )  | Liquid         | 50782-69-9 |        | >480 <sub>8</sub> |        |    |         |        |         |          |     |
| VX Nerve Agent, MIL-STD-282 (100 g/m <sup>2</sup> ) | Liquid         | 50782-69-9 |        | >480 <sub>8</sub> |        |    |         |        |         |          |     |
| Vinyl acetate                                       | Liquid         | 108-05-4   | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Vinyl benzol                                        | Liquid         | 100-42-5   | >480   | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Vinyl carbinol                                      | Liquid         | 107-18-6   | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Vinyl chloride                                      | Vapor          | 75-01-4    | >480   | >480              | >480   | 6  | <0.001  | 0.001  | <0.48   | >480     | 6   |
| Vinyl cyanide                                       | Liquid         | 107-13-1   | >480   | >480              | >480   | 6  | <0.0003 | 0.0003 |         |          |     |
| Vinyl ethylene (0 °C, liquid)                       | Liquid         | 106-99-0   | >180   | >180              | >180   | 4  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Vinyl ethylene (gaseous)                            | Vapor          | 106-99-0   | >480   | >480              | >480   | 6  | <0.05   | 0.05   | <24     | >480     | 6   |
| Vinyl magnesium chloride (16.5% in Tetrahydrofuran) | Liquid         | 3536-96-7  | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| Vinylidene chloride                                 | Liquid         | 75-35-4    | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| White Liquor                                        | Liquid         | mix        | >480   | >480              | >480   | 6  | <0.1    | 0.1    | <48     | >480     | 6   |
| Xylene, mixed isomers                               | Liquid         | 1330-20-7  | >480   | >480              | >480   | 6  | <0.01   | 0.01   | <4.8    | >480     | 6   |
| m-Cresol 55%, p-Cresol 30%, Phenol 15% (mix)        | Liquid         | mix        | >480   | >480              | >480   | 6  | <0.09   | 0.09   | <43.2   | >480     | 6   |
| t-Sodium-amylate / t-amyl alcohol (mix)             | Liquid         | mix        | 120    | 120               | 240    | 5  | 4.9     | 0.01   |         |          |     |

## Warnings

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