



# Brandenburg Personal Protective Equipment Guide for Hazardous Materials

Hazard Class Key:

1 - Irritant  
2 - Toxic

3 - Carcinogen  
4 - Corrosive

5 - Flammable  
6 - Combustible

7 - Asphyxiant  
8 - Sensitizer

**PEL** - Permissible Exposure Limit; An exposure limit established by OSHA (ACGIH, AIHA, NIOSH or other available limit is substituted where there is no PEL set).

**Cartridge Life** = Cartridge Life calculated at 86 deg. F., doing moderate work, with a maximum anticipated chemical exposure of 10 times the PEL. HF- Half face

**FF**- Full face **OV**- Organic vapor (respirator) **SA**-Supplied air **OVA**- Organic vapor, acid gas (respirator)

Material Name	Hazard Class	PEL	IDLH	Personal Protective Equipment (PPE)	Routes of Exposure Target Organs	Signs of Acute Exposure	First Aid / Decontamination
Acetic Acid	4: Corrosive 6. Combustible	10 ppm	<a href="#">50 ppm</a>	Neoprene or PVC gloves, Face Shield & Goggles, Slicker Suit, HF OV, Cartridge Life = 9.5 hours	Skin, Eyes, Inhalation, Lung Toxin	Conjunctivitis; Skin, eye, throat and lung irritation, Coughing, chest pain, nausea, vomiting, Pulmonary Edema and bronchial pneumonia	Flush with water 15 minutes, Remove contaminated clothing immediately, if swallowed do NOT induce vomiting. Rinse mouth with water Report to medical immediately.
Acetic Anhydride	1: Irritant 5. flammable	5 ppm	<a href="#">200 ppm</a>	Butyl Rubber gloves, boots, splash goggles, FF OV, Cartridge Life = 55 minutes	Eyes, Skin, Inhalation	Skin, eye, respiratory tract irritation	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Acetone	1: Irritant; 5: Flammable	750 ppm	<a href="#">2,500 ppm (LEL)</a>	Neoprene Gloves, Face Shield, HF OV, Cartridge Life = 24 minutes	Eyes, Skin, Inhalation	Irritant to eyes, skin, and lungs	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Acetonitrile	1: Irritant; 2: Toxic 5: Flammable	40 ppm	<a href="#">500 ppm</a>	Neoprene gloves, boots, splash goggles, face shield, HF OV, Cartridge Life = 55 minutes	Eyes, Skin, Inhalation / Central Nervous System, liver	Irritant to eyes, skin, respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
<u>Acrylonitrile (ACN)</u>	1: Irritant 2: Toxic 3: Carcinogen 4: Corrosive 5: Flammable 7: Asphyxiant	2 ppm TWA skin, 10 ppm Ceiling	<a href="#">85 ppm</a>	Butyl rubber gloves, Tychem suit, Rubber boots, Full face breathing air respirator	Skin, Eyes, Inhalation, Ingestion / Blood, Liver, Cardiovascular System, Central Nervous System, Hearing, & Respiratory System	Skin, Eye, Respiratory Tract Irritation, Nausea, Headache, Dizziness, Weakness, Sneezing, Blisters (w/o pain), blue nails	Flush eyes/skin with water 15 minutes, Do not touch contaminated person, remove contaminated clothing immediately, Give fresh air, Report to Medical Immediately

Agent 5108-113	1: Irritant 2: Toxic 4: Corrosive	50 ppm	N/A	Goggles, Nitrile gloves, Half Face Particulate Filter P-100	Eyes, Skin, Inhalation, Fetal Toxin	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Amine Polyol (27-2000)	1. Irritant 2. Toxic	N/A	N/A	OVA Respirator, Goggles, Face shield, Nitrile Gloves, Chemical Apron	Skin, Eyes, Respiratory System	Skin, Eye, Respiratory Tract Irritation	Move to Fresh Air, Flush eyes/skin with water 15 minutes, Report to Medical Immediately
Amine Polyol (37-5000)	1. Irritant	N/A	N/A	OVA Respirator, Goggles, Face shield, Nitrile Gloves, Chemical Apron	Skin, Eyes, Respiratory System	Skin, Eye, Respiratory Tract Irritation	Move to Fresh Air, Flush with water 15 minutes, Report to Medical Immediately
Ammonium Hydroxide	4: Corrosive	25 ppm 50 ppm (Univar only)		Neoprene/Nitrile gloves, boots, Face Shield & Goggles, Slicker Suit, HF AM, Cartridge Life = No Data	Eyes, Skin, Inhalation	Skin, eye, respiratory tract irritation	Flush eyes and skin with water 15 minutes, Remove to fresh air immediately, do not induce vomiting. Give Large quantities of water. Report to medical immediately

Anhydrous Ammonia	1. Irritant 2. Toxic 4. Corrosive (compressed gas)	<a href="#">25 ppm TWA,</a> <a href="#">35 ppm STEL</a>	<a href="#">300 ppm</a>	Neoprene Gloves, Boots, Slicker Suit, Full Face OVA Respirator	Skin, Eyes, Inhalation	Skin, Eye, Respiratory Tract Irritation, Difficulty Breathing	Move to Fresh Air, Flush eyes/skin with water 15 minutes, Remove contaminated clothing, Report to Medical Immediately
Aqueous Ammonia	Irritant Toxic Corrosive	<a href="#">25 ppm (TWA), 35 ppm (STEL)</a>	N/A	Neoprene Gloves, Boots, Slicker Suit, Full Face OVA Respirator Cartridge Life = No Data	Skin, Eyes, Inhalation	Skin, Eye, Respiratory Tract Irritation, Breathing difficulties	Move to Fresh Air, Flush eyes/skin with water 15 minutes, Remove contaminated clothing, Report to Medical Immediately
Poly-Solv PnP (Poly-Solv MPP) (Glycol Ether)	1: Irritant 5: Flammable	No Data	No Data	Neoprene Gloves, goggles, respirator	Eye and skin irritant; CNS depressant	No Data	No Data
Poly-Solv DPnP (Poly-Solv DPP) (Glycol Ether)	1: Irritant 6: Combustible	No Data	No Data	Neoprene Gloves, goggles	Eye irritant; CNS depressant	No Data	No Data
Poly-Solv PolyPnP (Poly-Solv DPP-HB) (Glycol Ether)	1: Irritant 6: Combustible	No Data	No Data	Neoprene Gloves, goggles	Eye, skin, respiratory, gastrointestinal irritant	No Data	No Data
Poly-Solv PnB (Poly-Solv MPB) (Glycol Ether)	1: Irritant 5: Flammable (DOT) 6: Combustible (OSHA)	No Data	No Data	Neoprene Gloves, goggles, respirator	Eye, skin, respiratory irritant; CNS depressant	No Data	*move person into fresh air. If not breathing, give artificial respiration. Wash off with soap and plenty of water. Rinse mouth with water. Rinse thoroughly with plenty of water for at least 15 minutes
Poly-Solv DPnB (Poly-Solv DPB) (Glycol Ether)	1: Irritant	No Data	No Data	Neoprene Gloves, goggles	Eye, skin and respiratory irritant	No Data	*move person into fresh air. If not breathing, give artificial respiration. Wash off with soap and plenty of water. Rinse mouth with water. Rinse thoroughly with plenty of water for at least 15 minutes
Poly-Solv PolyPnB (Poly-Solv DPB-HB) (Glycol Ether)	1: Irritant 6: Combustible	No Data	No Data	Neoprene Gloves, goggles	Skin irritant	No Data	No Data

Benzene	1: Irritant 3: Carcinogen 5: Flammable 7:Asphixiant	0.5 ppm	<a href="#">500 ppm</a>	Nitrile gloves, (PVA if no water is present), HF OV, Cartridge Life = No Data	Eyes, Skin, Inhalation, Ingestion, Fetal toxin	Eye, skin, respiratory tract irritation, breathlessness, headache, dizziness, nausea, intoxication, May be fatal if inhaled or ingested	Remove victim to fresh air, Flush eyes with water 15 minutes, Remove contaminated clothing immediately, wash skin with soap and water. Report to medical immediately
Benzoic Acid	1: Irritant	None Established		Rubber gloves and boots, HF OVA, Cartridge Life = 999 hours Safety glasses with side shields. Where contact with eyes is likely, use chemical goggles.	Skin, Inhalation / Respiratory System, Throat, mucous membrane	Skin, respiratory tract irritation, Difficulty in breathing, Burning of throat	Remove victim to fresh air, Flush eyes with water 15 minutes, Remove contaminated clothing immediately, wash skin with soap and water. Report to medical immediately
BHT	1: Irritant	10 mg/m <sub>3</sub>		Nitrile or Neoprene; goggles and respirator if dust present	Eye, skin, respiratory irritant		Remove victim to fresh air, Flush eyes with water 15 minutes, Remove contaminated clothing immediately, wash skin with soap and water. Give (2) glasses of water
Biosludge	Not Regulated	None	None	Safety glasses, gloves	Inhalation, skin, eyes, ingestion	None	No Data
BisAPAF	1: Irritant			Butyl Rubber Gloves, Tyvek Suit, Dust Respirator	Eyes, Skin, Inhalation	Causes skin and eye irritation	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth
Boron Trifluoride Etherate (BF <sub>3</sub> )	4: Corrosive 5: Flammable	1 ppm		Goggles & Face Shield, Neoprene gloves, Boots, Acid Suit, HF OVA, Cartridge Life = No Data	Eyes, Skin, Inhalation	Severe eye, skin, respiratory tract irritation	Flush eyes and skin with water 15 minutes, Give 2-4 cups of mils or water Remove contaminated clothing immediately, Report to medical immediately
Butanol	1: Irritant 5: Flammable	100 ppm		Splash goggles / face shield, Nitrile Rubber gloves, FF OV, Cartridge Life = 8 hours	Skin absorption, Eyes, Inhalation	Severe eye, skin, respiratory tract irritation, Nausea, Headache, Dizziness,	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
BL-11 Catalyst ??	4: Corrosive	None Established		Neoprene gloves, splash goggles	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
BL-17 Catalyst ??	4: Corrosive	None Established		Neoprene gloves, splash goggles	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately

Caustics (NaOH)	4: Corrosive	2 ppm		Neoprene gloves, boots, face shield & splash goggles, PVC suit (acid suit), HF	Eyes, Skin, Inhalation / Mouth, Nose, Respiratory system	Skin, eye, respiratory tract burns, Shortness of breath, wheezing, choking, chest pain, lung function impairment	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
CDTA	1: Irritant			Nitrile Rubber Gloves, Tyvex Suit,	Eyes, Skin, Inhalation	Causes skin irritation, Causes serious eye irritation	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Drink water (two glasses most)
Chlorine	1: Irritant 2: Toxic 4: Corrosive	<a href="#">1 ppm</a>	<a href="#">10 ppm</a>	Neoprene gloves, boots, apron; FF SA, (HF OVA Escape Only)	Eyes, Skin, Inhalation	Eye, skin, mucous membrane and respiratory tract irritant	Flush eyes and skin with water 15 minutes, Remove to fresh air immediately, give oxygen, drink large amounts of water, do not induce vomiting Report to medical immediately

Continuum AT4505	1: Irritant 4: Corrosive			Chemical goggles and face shield; Nitril or Butyl Gloves; slicker suit	Eyes, Skin, Inhalation, Ingestion	Causes severe skin burns, Causes serious eye damage (blindness could occur), May cause respiratory irritation	Move to fresh air and keep person calm; Remove contaminated clothing and wash affected area with soap and water; flush eyes for at least 15 min, remove contact lenses; rinse mouth with water, dilute with 4-10 oz's (120-300 ml) water or milk
Control OS9990	1: Irritant 4: Corrosive			Chemical Splash Goggles with Face Shield, Nitril Gloves	Eyes, Skin, Inhalation	Causes severe skin burns, Serious eye damage, May cause respiratory irritation	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Cresol / Cresol Distillate	4: Corrosive 6: Combustible	5 ppm		Neoprene gloves, boots, splash goggles & face shield, acid suit, HF OVA, Cartridge Life = 93 hours	Eyes, Skin, Inhalation / liver, kidney, blood toxin	Corrosive to eyes, skin and respiratory tract	Flush skin and eyes with water 30 minutes, Remove contaminated clothing immediately, give 2-4 cups of milk or water Report to medical immediately
Cresol Solution 45/55 or 40/60	4: Corrosive 6: Combustible	5 ppm		Neoprene gloves, boots, splash goggles & face shield, acid suit, HF OVA, Cartridge Life = 93 hours	Eyes, Skin, Inhalation / liver, kidney, blood toxin	Corrosive to eyes, skin and respiratory tract	Flush skin and eyes with water 30 minutes, Remove contaminated clothing immediately, give 2-4 cups of milk or water Report to medical immediately
Cyclohexane	1: Irritant 5: Flammable	300 ppm		Neoprene gloves, boots, splash goggles, FF OV, Cartridge Life = 70 minutes	Eyes, Skin, Inhalation	Skin, eye, respiratory tract irritation	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Dabco 33LV, T-9 *	1: Irritant 4: Corrosive 8: Sensitizer	None Established		Nitrile rubber gloves, splash goggles	Eyes, Skin, Inhalation	Eye and respiratory tract irritant, skin sensitizer	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Dabco T-10	1: Irritant 4: Corrosive 8: Sensitizer	None Established		Rubber gloves, splash goggles	Eyes, Skin, Inhalation	Eye and respiratory tract irritant, skin sensitizer	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Dabco 8800	1: Irritant	None Established		Neoprene gloves	Eyes, Skin, Inhalation	Eye and respiratory tract irritant, skin sensitizer	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately

Denatured Ethanol	1: Irritant 2: Toxic 3: Carcinogen 5: Flammable	1000 ppm		Neoprene gloves, boots, splash goggles, face shield, impermeable suit, FF SA	Nerves., Liver, Heart, Eyes, Kidney, Central nervous system, Cardiovascular system, gastrointestinal tract	Eye, skin, respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Do NOT induce vomiting. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Report to medical immediately
Depositrol PY5206	4: Corrosive	2 mg/m3 (NaOH)		Rubber, butyl, viton or neoprene gloves, face shield, respirator	May cause irritation to the upper respiratory tract, eyes, and skin.	Gastrointestinal irritation with nausea, vomiting, abdominal discomfort and diarrhea. Itching and redness of skin.	Wash skin with soap and water, flush eyes with water for 15 minutes. Remove to fresh air; do not feed anything by mouth. Do not induce vomiting. Dilute contents using 2-4 cups of water or milk.
Depositrol BL 5301	4: Corrosive	None established		Butyl or neoprene gloves, wash off after each use. Splash goggles and face shield	Eyes, skin, upper respiratory	May cause minor irritation to the skin. Corrosive to the eyes.	Wash skin with soap and water, flush eyes with water for 15 minutes. Remove to fresh air; do not feed anything by mouth. Do not induce vomiting.
Depositrol BL 6501	1: Irritant 4: Corrosive			Butyl or Neoprene gloves, wash off after each use. Splash goggles and face shield.	Eye, Skin, Inhalation, Ingestion	Causes severe skin burns, severe eye damage, May cause respiratory irritation	Wash skin with soap and water, flush eyes with water for 15 minutes. Remove to fresh air; do not feed anything by mouth. Do not induce vomiting.
Diethanolamine (DEA)	1: Irritant	3 ppm TWA 0.46 ppm TWA (skin)		Gloves, goggles, respirator	Eyes, skin, inhalation, liver, kidney, blood	No data	*move person into fresh air. If not breathing, give artificial respiration. Wash off with soap and plenty of water. Rinse mouth with water. Rinse thoroughly with plenty of water for at least 15 minutes
Diethylenetriamine (DETA)	1: Irritant 2: Toxic 4: Corrosive	1 PPM		Supplied Air (SA), Butyl Rubber Gloves, Slicker Suit	Eyes, Skin, Inhalation	Causes sever skin burns and eye damage, Toxic to skin, Allergic Skin Reaction, Fatal if Inhaled	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Dipropylene Glycol	1: Irritant	Not established		Butyl Rubber or Nitrile Gloves, goggles	Eye Irritant Liver, Kidney, Nerves. Liver, Kidney, Nerves.	No Data	*move person into fresh air. If not breathing, give artificial respiration. Wash off with soap and plenty of water. Flush eyes with water as a precaution. Rinse mouth with water.

DMCHA Catalyst	4: Corrosive	None Established		Neoprene gloves, splash goggles	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Dow Corning Antifoam B Emulsion	Not Regulated	No Data		Safety glasses	Eyes	No Data	Flush eyes with water
Dowtherm J (Heat Transfer Fluid)	1: Irritant 2: Toxic 5: Flammable Toxic to Aquatic Life	5 ppm		Slicker Suit, Chemical boots, Butyl or Nitril Gloves, FF OVA respirator	Eyes, Skin, Inhalation, Ingestion	May cause severe skin irritation, Slight eye irritation	Move to fresh air and keep person calm; Remove contaminated clothing and wash affected area with water; flush eyes for at least 15 min, remove contact lenses; do not induce vomiting
Dry Moby-Lube 200	1: Irritant 5: Flammable	None Established		Neoprene gloves, boots, splash goggles, face shield	Eyes, Skin, Inhalation, Ingestion / liver, blood, urinary tract	Skin, eye, respiratory tract and gastrointestinal tract irritation, CNS toxin, depressant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
D-33LV Catalyst	4: Corrosive	None Established		Neoprene gloves, splash goggles	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
DC-2 Catalyst	4: Corrosive	None Established		Neoprene gloves, splash goggles	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Econic CM (Econic Catalyst)	1: Irritant 3: Carcinogenic (potential) 6: combustible dust (St2)	None Established		Full face respirator, with P100 filter Tyvek suite Nitrile gloves Rubber boots	Eyes, Skin, Inhalation	Skin, eye irritant, potential carcinogenic	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately

EL (500) Novolak	1: Irritant 6: Combustible	None Established		Butyl gloves, face shield, HF OV, Cartridge Life = No Data	Eyes, Skin, Inhalation, Ingestion, CN system toxin	Eye, skin, respiratory tract and mucous membrane irritation	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Ethanol denatured with ethyl aceate	1: Irritant 5: Flammable	STEL: 1000 ppm		Butyl gloves, slicker suit, Full Face OV respirator	Eyes, Skin, Inhalation	Serious eye damage/irritation, headache	Flush with water 15 minutes. Remove contaminated clothing immediately. Report to medical immediately
Ethyl 3-ethoxy propionate (aka EEP)	1: Irritant 6: Combustible	50 ppm (TWA) 100 ppm (STEL)		Neoprene gloves, face shield, HF OV, Cartridge Life = No Data	Eyes, Skin, Inhalation	Eye and respiratory tract irritant, skin sensitizer	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Ethyl Acrylate	1: Irritant 2: Toxic 5: Flammable	5ppm		Supplied Air (SA), Butyl Rubber Gloves, Chemical Boots, Green Acid Suit	Eyes, Skin, Inhalation	Skin Irritation, May cause allergic skin reaction, Cause serious eye irritation, Toxic if Inhaled, May cause respiratory irritation	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Ethyl Lactate Purasolv Elect	1: Irritant 6: Combustible	None Established		Butyl gloves, face shield	Eyes, Skin, Inhalation	Eye, skin and respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Ethylenediamine "EDA"	2: Toxic 4: Corrosive 6: Combustible 8: Sensitizer	<a href="#">10 ppm</a> <a href="#">TWA</a>	<a href="#">1000 ppm</a>	Polyethylene or Butyl rubber gloves-boots, air purifying or supplied air resp. If EDA is in the environment a Scott Air Pack is needed.	Eyes, Skin, Inhalation, Ingestion. kidney, liver	Skin-eye reactions Chemical burns respiratory tract irritant,	Flush skin-eyes 30min. move to fresh air. Remove contaminated clothing, Report to medical immediately
Ethylene Glycol	1: Irritant 2: Toxic 5: Flammable	50 ppm		Neoprene gloves, boots, goggles, HF OV, Cartridge Life = 7 hours	Eyes, Skin, Inhalation, CNS, Ingestion / liver, kidney toxin	Eye, skin and respiratory tract irritant, CNS depressant	Flush with water 15 minutes, Remove contaminated clothing immediately, do not induce vomiting, Report to medical immediately
Ethylene Oxide (EO)	1: Irritant 2: Toxic 3: Carcinogen 4. Corrosive 5: Flammable 8. Sensitizer	<a href="#">1 ppm</a>	<a href="#">800 ppm</a>	Butyl Rubber Gloves, Tychem suit, Breathing Air FF, Rubber boots.	Eyes, Skin, Mouth, Nose, Fetal Toxin, Respiratory system, Kidneys, GI system, Blood, liver	Nausea, Headache, Dizziness, Diarrhea, Shortness of breath, cyanosis, Skin Irritation & Blistering, Frostbite	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately

Formaldehyde (solutions)	1: Irritant 3: Carcinogen 6: Combustible 8: Sensitizer	<a href="#">0.75 ppm TWA</a> <a href="#">2 ppm STEL</a>	<a href="#">20 ppm</a>	FF OVA, Slicker Suit, Rubber gloves and boots	Eyes, Skin, Inhalation, Ingestion / Cancer, Skin & Respiratory System, Throat	Eye, skin, respiratory tract irritation, Tearing, Difficulty in breathing, Burning of the eyes and throat, cough, Transient eye discomfort to severe, permanent corneal clouding and loss of vision, Nausea, Headache, Dizziness, Weakness, Asthma, Bronchitis	Remove victim to fresh air, Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Freon 22	6: Combustible	1000 ppm		Rubber gloves, Splash goggles	Eyes, Skin, Inhalation	Frostbite to skin, eye, skin, respiratory tract irritation, CNS depressant	Remove victim to fresh air, Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Fumaric Acid	1: Irritant	None Established		Normal daily PPE, HF DM if needed for comfort	Eyes, Skin, Inhalation	Severe eye, skin, respiratory tract irritation	Remove victim to fresh air, Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
GenGuard GN7106	1: Irritant 4: Corrosive	None Established		Butyl or neoprene gloves, wash off after each use. Splash goggles and face shield	Eyes, skin, upper respiratory	May cause minor irritation to the skin. Corrosive to the eyes.	Wash skin with soap and water, flush eyes with water for 15 minutes. Remove to fresh air, do not feed anything by mouth. Do not induce vomiting. Dilute contents using 2-4 cups of water or milk.
Genguard 7300	1: Irritant 4: Corrosive			Splash proof chemical goggles with face shield, Neoprene or Butyl gloves	Eyes, Skin, Inhalation, Ingestion	Burning pain and severe corrosive skin damage. Upper respiratory tract irritation. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.	Move to fresh air and keep at rest; Remove contaminated clothing, rinse skin with water/shower for at least 15 min; Flush eye with plenty of low-pressure water for at least 20 mins, remove contact lenses; Rinse mouth, DO NOT induce vomiting
GenGuard GN8142	1: Irritant 4: Corrosive	None Established		Butyl or neoprene gloves, wash off after each use. Splash goggles and face shield	Eyes, skin, upper respiratory	May cause minor irritation to the skin. Corrosive to the eyes.	Wash skin with soap and water, flush eyes with water for 15 minutes. Remove to fresh air, do not feed anything by mouth. Do not induce vomiting. Dilute contents using 2-4 cups of water or milk.

1,6-Hexamethylene diisocyanate (HDI), Luxate HB 3000, HC1375, HT2000	1: Irritant 2: Toxic 8: Sensitizer	.005 ppm		Neoprene gloves, boots, FF SA	Eyes, Skin, Inhalation	Eye, skin and respiratory tract irritant and sensitizer	Flush with water 15 minutes, Remove to fresh air immediately, give oxygen, Report to medical immediately
Hexane	5: Flammable	50 ppm		Neoprene gloves, face shield, HF OV, Cartridge Life = 4 hours	Eyes, Skin, Inhalation	Eye and respiratory tract irritant	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Hydrogen	5: Flammable	n/a, O <sub>2</sub> >19.5%		Nitrile Gloves, SCBA	Respiratory system	Central Nervous System depression (headache, nausea, lack of coordination)	*move person into fresh air. If not breathing, give artificial respiration. Wash off with soap and plenty of water. Rinse mouth with water. Flush eyes with water as precaution.
Hydrogen Chloride (hydrochloric acid)	4: Corrosive	<a href="#">5 ppm</a>	<a href="#">50 ppm</a>	Neoprene gloves, boots, splash goggles, face shield, acid suit, HF OVA, Cartridge Life = No Data	Eyes, Skin, Inhalation, Ingestion, lung toxin	Eye, skin, and respiratory tract irritant, headache, dizziness	Flush skin and eyes with water 15 minutes, Remove contaminated clothing immediately, do not induce vomiting, rinse with water, give water or milk to drink, Report to medical immediately
Hydrogen Peroxide	1: Irritant 4: Corrosive	<a href="#">1 ppm</a>	<a href="#">75 ppm</a>	Neoprene gloves, boots, splash goggles, face shield, FF SA	Eyes, Skin, Ingestion	Corrosive to eyes, skin and respiratory tract irritant	Flush eyes and skin with water 15 minutes, Remove contaminated clothing immediately, rinse mouth with water, dilute with 2 glasses of water. Do not induce vomiting, Report to medical immediately
Hydrogen Sulfide (H <sub>2</sub> S)	1: Irritant 2: Toxic 5: Flammable	<a href="#">10 ppm</a>	<a href="#">100 ppm</a>	Butyl Rubber or Nitrile gloves, goggles, boots, breathing air, FF SA	Eyes, Skin, Inhalation, Ingestion	Eye, skin and respiratory tract, mucous membrane irritant, CNS depressant	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Hydroquinone (HQ)	1: Irritant 2: Toxic 3: Carcinogen 8: Sensitizer	<a href="#">2 mg/ m3</a>	<a href="#">50 mg/m3</a>	Neoprene gloves, FF OV w/DM prefilter, Cartridge Life = No Data	Skin, Eyes, Inhalation	Eye, skin, respiratory tract irritation, allergic skin reaction	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Hydroxyethyl methacrylate (HEMA)	2: Toxin 8: Sensitizer	None Established		Neoprene gloves, boots	Eyes, Skin, Inhalation, Ingestion / liver, kidneys	Eye, skin and respiratory tract irritant, may impair fertility	Flush with water 15 minutes, Remove to fresh air immediately, give oxygen, Report to medical immediately

Hypersperse MDC 775	1: Irritant			Chemical Splash Goggles, Neoprene or Nitril Gloves	Eyes, Skin, Inhalation	Causes skin irritation, Causes serious eye irritation	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
IBA Thioacid	4: Corrosive 5: Flammable			Full Face OVA, Butyl Rubber Gloves, Chemical Boots, Green Acid Suit	Eyes, Skin, Inhalation	Causes sever skin burns and eye damage	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
ICL	2: Toxic 4: Corrosive	1ppm (15min. TWA)		Butyl Rubber gloves, safety goggle w/ face shield, Slicker suit, chemical boots	Eyes, Skin, Inhalation	Causes sever skin burns and eye damage, Toxic if inhaled	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Isophorone diisocyanate (IPDI), Luxate IT & ITM series	1: Irritant 2: Toxic 8: Sensitizer	.005 ppm		Neoprene gloves, boots, splash goggles, breathing air, FF SA	Eyes, Skin, Inhalation	Eye and respiratory tract irritant, skin sensitizer, lung toxin	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
<a href="#">Isopropyl Alcohol (IPA)</a>	1: Irritant 5: Flammable	<a href="#">400 ppm</a>	<a href="#">2000 ppm</a>	Neoprene gloves, boots, splash goggles, FF OV, Cartridge Life = 52 minutes	Eyes, Skin, Respiratory system	Skin, eye, respiratory tract irritation, Central Nervous System depression (headache, nausea, lack of coordination)	Flush with water 15 minutes, Remove to fresh air immediately, give CPR, Remove contaminated clothing, Report to medical immediately
IPA Thioacid	1: Irritant 2: Toxic 4: Corrosive 5: Flammable			Full Face OVA, Butyl Rubber Gloves, Chemical Boots, Green Acid Suit	Eyes, Skin, Inhalation	Cause serious eye damage, Cause sever skin burns, Harmful if Swallowed	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
ITM-800 (IPDI trimer)	1: Irritant 2: Toxic 8: Sensitizer	.005 ppm		Neoprene gloves, boots, splash goggles, breathing air, FF SA	Eyes, Skin, Inhalation	Eye, skin and respiratory tract irritant and sensitizer	Flush with water 15 minutes, Remove to fresh air immediately, give oxygen, Report to medical immediately

Kleen AC9507	1: Irritant	Not Determined		Neoprene Gloves, Goggles	Eyes, Skin, Inhalation	May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.	SKIN CONTACT: Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. EYE CONTACT: Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention. INHALATION: If nasal, throat or lung irritation develops - remove to fresh air and get medical attention. INGESTION: Do not induce vomiting. Dilute contents of stomach using 3-4 glasses milk or water
Lupranate M20S (polymeric MDI)	1: Irritant 2: Toxic 8: Sensitizer	.02 ppm		Nitrile gloves, splash goggles, FF SA	Eyes, Skin, Inhalation	Eye, skin and respiratory tract irritation, lung toxin, sensitizer	Flush with water 15 minutes, Remove to fresh air immediately, Remove contaminated Report to medical immediately
Lupranate M70L/R (polymeric MDI)	1: Irritant 2: Toxic 8: Sensitizer	.02 ppm		Nitrile gloves, splash goggles, FF SA	Eyes, Skin, Inhalation	Eye, skin and respiratory tract irritation, lung toxin, sensitizer	Flush with water 15 minutes, Remove to fresh air immediately, Remove contaminated clothing, Report to medical immediately
Methacrylic Acid	2: Toxic 4: Corrosive	20ppm		Supplied Air (SA), Butyl Rubber Gloves, Chemical Boots, Green Acid Suit	Eyes, Skin, Inhalation	Harmful if swallowed or if inhaled, Toxic in contact with skin, causes severe skin burns and eye damage, causes serious eye damage, May cause respiratory irritation.	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Methacrylic Acid	1: Irritant 2: Toxic 4: Corrosive	20 ppm		Neoprene gloves, boots, splash goggles, acid suit, FF SA	Eyes, Skin, Inhalation	Eye, skin and respiratory tract irritant, Extremely destructive to mucous membranes	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Methane	5: Flammable 7: Asphyxiant	None Established		Neoprene gloves, boots, splash goggles, breathing air, FF SA	Eyes, Skin, Inhalation	Frostbite to eyes, skin and respiratory tract, mucous membranes, CNS depressant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Methanol	1: Irritant 2: Toxic 5: Flammable	200 ppm		Neoprene gloves, face shield, HF OV	Eyes, Skin, Inhalation	Eye, skin and respiratory tract irritant	Flush with water 15 minutes, Remove to fresh air immediately, give oxygen, Report to medical immediately
2-methoxyethyl ether (Diglyme)	2: Toxic 6: Combustible	None Established		Butyl Rubber gloves, boots, splash goggles, HF OVA w/DM prefilter, Cartridge Life = No Data (82 hours based on Polysolv EM)	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant, reproductive system	Flush with water 15 minutes, Remove contaminated clothing Report to medical immediately

2-methyl-2-propanol (tert-Butanol)	1: Irritant 2: Toxic 5: Flammable	100 ppm		Neoprene gloves, boots, splash goggles, protective clothing	Eyes, Skin, Inhalation, liver	Eye, skin and respiratory tract irritant, CNS depressant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Methyl Chloride	2: Toxic 3: Carcinogen 5: Flammable	<a href="#">100 ppm</a>	<a href="#">2000 ppm</a>	Neoprene gloves, boots, splash goggles, apron, FF SA	Eyes, Skin, Inhalation / liver, suspected fetal toxin	Corrosive to eyes, skin and respiratory tract, CNS depressant	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Methyl isobutyl ketone (MIBK)	1: Irritant 5: Flammable	50 ppm		Nitrile gloves, boots, splash goggles, face shield, FF SA	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, wash skin with soap and water, Report to medical immediately
Methylimidazole Catalyst	1: Irritant 4: Corrosive	None Established		Neoprene gloves, goggles, face shield, slicker suit, HF OV	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Methylene bis-phenylene Isocyanate (MDI)	2: Toxic	.005 ppm		Neoprene gloves, boots, splash goggles, breathing air, FF SA	Eyes, Skin, Inhalation	Sensitizer to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Methylene Chloride (Dichloro methane)	1: Irritant 3: Carcinogen	25 ppm	<a href="#">2300 ppm</a>	Neoprene gloves, splash goggles, FF SA	Eyes, Skin, Inhalation / liver, kidneys	Irritant to eyes and skin; eye, skin and respiratory tract sensitizer	Flush skin and eyes with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
MIBC Thioacid	4: Corrosive 5: Flammable			Full Face OVA, Butyl Rubber Gloves, Chemical Boots, Green Acid Suit	Eyes, Skin, Inhalation	Causes sever skin burns and eye damage	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
MMP (methyl 3-methoxy propionate)	1: Irritant 5: Flammable	None Established		Neoprene gloves, face shield, HF OV, Cartridge Life = No Data	Eyes, Skin, Inhalation	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove to fresh air immediately, give oxygen, Report to medical immediately
Monethanolamine (MEA)	4: Corrosive	3ppm TWA		Goggles with face shield, gloves, respirator	Eyes, skin, respiratory system Central nervous system		No data
Mono IPA (isopropanolamine)	4: Corrosive 6: Combustible	3ppm (Dow IHG)		Face shield, gloves, boots, apron or full body suit. Goggles, gloves respirator if above PEL	Eyes, skin, respiratory system	Skin may burn and cause severe irritation to eyes, resulting in corneal injury. Ingestion may result in burns of mouth stomach, and lower GI tract	Flush eyes with water for 30 minutes, skin should be flushed for at least 15 minutes

MPE Bottoms	1: Irritant 5: Flammable			Butyl gloves, slicker suti, Full Face OV respirator	Eyes, Skin, Inhalation	Serious eye irritation, Drowsiness or Dizziness	Flush with water 15 minutes. Remove contaminated clothing immediately. Report to medical immediately
Neodol-1	1: Irritant 2: Toxic (Aquatic Life)			Safety Glasses, FRC, Rubber gloves	Eyes	Causes serious eye irritation	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins;

Nessler Reagent	1: Irritant 2: Toxic 4: Corrosive	0.1 mg/m <sup>3</sup>		Gloves, goggles, respirator when not using hood	Inhalation, skin, eyes, ingestion CNS	Severe eye burns, delayed damage. Skin burns, deep, penetrating ulcers of skin. Kidney damage, circulatory system failure. Perforation of digestive tract. Vomiting and possible death. Chemical pneumonitis and pulmonary edema.	Flush eyes and skin with water for 15 minutes. Do not induce vomiting; give 2-4 cups of milk or water. Remove to fresh air, give artificial respiration if possible, used oxygen. Seek medical aid immediately
Niax A-5 Catalyst	1: Irritant 4: Corrosive	None Established		Neoprene gloves, goggles, protective clothing	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Nitrogen, Refrigerated Liquid	7: Asphyxiant (Compressed Gas)	n/a, O <sub>2</sub> >19.5%	n/a, O <sub>2</sub> >19.5%	Neoprene gloves, splash goggles, FF SA or SCBA	Eyes, Skin, Inhalation, Central Nervous System toxin	Eye, skin, respiratory tract and mucous membrane irritation, frostbite, CNS Depression (headache, nausea, lack of coordination)	Move to fresh air immediately, Flush with water 15 minutes, give oxygen, Immediately warm frostbite area with warm water <105 deg F. Report to medical immediately
Never-Seez	None	1 mg/m <sup>3</sup>		Normal daily PPE	Eyes, Skin, Inhalation	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove contaminated clothing immediately
NMP	1: Irritant 2: Toxic	10 ppm TWA		Butyl Rubber Gloves, Chemical splash goggles, slicker suit, chemical boots	Eyes, Skin, Inhalation	Skin Irritation, Causes serious eye irritation, Causes respiratory irritation, May damage fertility or the unborn child	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins;
Nonyl Phenol	1: Irritant 4: Corrosive 6: Combustible	5 ppm		Neoprene gloves, boots, splash goggles / face shield, impermeable suit, HF OV w/DM Prefilter, Cartridge Life = No Data	Eyes, Skin, Inhalation	Severe eye, skin, respiratory tract irritation	Remove victim to fresh air, Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Natural Diatomaceous Earth	5: Flammable	None Established		HF	Eyes, Skin, Inhalation, Ingestion	Eye, skin, respiratory tract irritation	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Novolak 6500	1: Irritant 6: Combustible	None Established		Neoprene gloves, face shield, HF OV, Cartridge Life = No Data	Eyes, Skin, Inhalation, Ingestion	Eye, skin, respiratory tract irritation	Flush eyes and skin with water 15 minutes, remove contaminated clothing immediately, give large amounts of milk or water Report to medical immediately
Novolak Solids	1: Irritant	None Established		Goggles, Neoprene gloves, HF DM	Skin absorption, Eyes, Inhalation	Eye, skin, mucous membrane, and respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately

ODC	4: Corrosive			Slicker Suit, Butyl Rubber Gloves, Chemical Boots, Goggles, Face Shield and OVA Respirator (or full-face respirator)	Eyes, Skin, Inhalation	Causes sever skin burns and eye damage	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth
OPD 262	1: Irritant 2: Toxic 4: Corrosive	No Data	No Data	Normal daily PPE, Nitril gloves	Skin, Eye, Inhalation, Ingestion	Causes severe skin burns and eye damage, Causes damage to organs (Central Nervous System)	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Rinse eyes with water for 15 mins; rinse mouth, DO NOT induce vomiting
OPD 500	1: Irritant 2: Toxic 4: Corrosive	No Data	No Data	Normal daily PPE; Nitril gloves	Skin, Eye, Inhalation, Ingestion	Causes severe skin burns and eye damage, Causes damage to organs (Central Nervous System)	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Rinse eyes with water for 15 mins; rinse mouth, DO NOT induce vomiting
Optisperse AP0200	No Data			Chemical Splash Goggles, Butyl or Neoprene Gloves (Wash after each use)	Eyes, Skin, Inhalation	No Data	No Data

Oxalic Acid	2: Toxic 4: Corrosive	1m g/ m3		Neoprene gloves, boots, splash goggles & face shield, acid suit, HF OVA w/ DM Prefilter (s), Cartridge Life = No Data	Eyes, Skin, Inhalation / liver, CNS, suspected fetal toxin	Corrosive to eyes, skin and respiratory tract	Flush eyes and skin with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Para-Toluene Sulfonic Acid (PTSA)	2: Toxic 4: Corrosive	1 mg/ m3		Neoprene gloves, splash goggles, acid suit, FF OVA w/DM Prefilter, Cartridge Life = No Data	Eyes, Skin, Inhalation / liver, kidneys	Corrosive to eyes and skin; eye, skin and respiratory tract sensitizer	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Permatex Form A Gasket Sealant	None	None Established		Normal daily PPE	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately
pH Buffer Solution 4.00	Not Regulated	No Data		Gloves, safety glasses	Skin, eyes	No Data	No Data
pH Buffer Solution 7.00	Not Regulated	No Data		Gloves, safety glasses	Skin, eyes	No Data	No Data
pH Buffer Solution 10.00	Not Regulated	No Data		Gloves, safety glasses	Skin, eyes	No Data	No Data
Phenol	2: Toxic 4: Corrosive	5		Neoprene gloves, boots, splash goggles, HF OV w/DM Prefilter	Eyes, Skin, Inhalation / CNS, suspected fetal toxin	Corrosive to eyes, skin and respiratory tract, liver	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Phenolphthalein Indicator Solution	1: Irritant 2: Toxic	None Established		Neoprene gloves, splash goggles, face shield	Eyes, Skin, Inhalation / CNS, kidneys	Eye, skin, respiratory tract irritant, CNS depressant, kidney toxin	Flush eyes and skin with water 15 minutes, Remove contaminated clothing immediately, wash skin with soap and water. Lay on left side to clear air ways Report to medical immediately
Phenyl Glycidyl Ether (PEG)	1: Irritant 3: Carcinogen 8: Sensitizer	10 PPM TWA	100 PPM	Breathing air, slicker suit, butyl rubber gloves	Eyes, skin, respiratory system, liver, kidneys, CNS, reproductive system	Skin irritation, irritation to mucous membrane, allergic reactions, coughing, breathing difficulties, watery eyes, salivation, dizziness, unconsciousness	Supply fresh air or oxygen, Flush eyes, and skin with water 15 minutes, Remove contaminated clothing immediately, wash skin with soap and water. Rinses mouth, and then drink plenty of water, Report to medical immediately

Phosphoric Acid	4: Corrosive	1 mg/ m3		Neoprene gloves, boots, splash goggles, impermeable suit, FF DM	Skin, Eyes, Inhalation	Severe burns to eyes and skin, respiratory tract irritation	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Phosphorous Pentoxide (P <sub>2</sub> O <sub>5</sub> )	4: Corrosive	None Established		Full Face OVA, Butyl Rubber Gloves, Chemical Boots, Green Acid Suit	Eyes, Skin, Inhalation, Ingestion	Causes sever skin burns and eye damage	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Piperazine	4: Corrosive 8: Sensitizer Reproductive Toxicity			Full Face OVA, Butyl Rubber Gloves, Chemical Boots, Slicker Suit	Eyes, Skin, Inhalation	Causes severe skin burns and eye damage, May cause an allergic skin reaction, May cause allergy or asthma symptoms or breathing difficulties if inhaled, Suspected of damaging fertility or the unborn child.	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
PMA (1-methoxy-2-propyl acetate)	1: Irritant 6: Combustible	None Established		Neoprene gloves, face shield, HF OV, Cartridge Life = No Data	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
<a href="#">Polymer Polyol92-27</a>	1: Irritant	N/A	N/A	Rubber gloves, goggles	Skin, Eyes, Respiratory System	Skin, Eye, Respiratory Tract Irritation	Move to Fresh Air, Flush eyes/skin with water 15 minutes, Report to Medical Immediately
<a href="#">Polymer Polyol Stabilizer (90-28)</a>	1: Irritant 3: Carcinogen 5: Flammable	100 ppm TWA (Based on Styrene)	700 ppm (Based on Styrene)	Rubber Gloves, Goggles, Face Shield, OVA Respirator if above PEL	Skin, Eyes, Respiratory System	Skin, Eye, Respiratory Tract Irritation	Move to Fresh Air, Flush eyes/skin with water 15 minutes, Report to Medical Immediately
Poly Floc CP1644	1: Irritant			Chemical Splash Goggles, Neoprene gloves	Eyes, Skin, Inhalation	May cause slight irritation to skin and eyes	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Do not induce vomiting, dilute contents using 2-8 fluid ounces of milk or water
Poly -Q 40-56	1: Irritant			Goggles, Butyl rubber, Natural rubber, Neoprene, Nitrile gloves, impervious clothing	Eyes, skin, Inhalation, ingestion	May cause moderate to severe irritation, redness, swelling, mucous membrane discharge to the conjunctiva in the eyes. Ingestion may cause irritation of the gastrointestinal tract nausea, vomiting or diarrhea	

Poly-Q 40-480	1: Irritant			Goggles, Butyl rubber, Naturalrubber, Neoprene, Nitrile gloves, impervious clothing	Eyes, skin Inhalation, skin, eyes, ingestion	May cause moderate to severe irritation, redness, swelling, mucousmembrane discharge to the conjunctiva in the eyes. Ingestion may cause irritation of the gastrointestinal tract nausea, vomiting or diarrhea	
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Poly –Q 40-770	1: Irritant			Goggles with side shields, gloves, impervious clothing	Eyes, skin, inhalation, ingestion	Inhalation of hot vapors or mist may cause nausea and respiratory tract irritation. May cause minor irritation, redness, swelling, and mucous membrane discharge to the conjunctiva in the eyes. Skin contact may cause minor irritation consisting of transient redness and swelling. Ingestion may cause irritation of the gastrointestinal tract nausea, vomiting or diarrhea	
Poly –Q 40-800	1: Irritant 8: Skin sensitizer			Goggles, gloves, impervious clothing	Eyes, skin, inhalation, ingestion	May cause minor irritation, redness, swelling, and mucous membrane discharge to the conjunctiva in the eyes. Skin contact may cause minor irritation consisting of transient redness and swelling. Ingestion may cause irritation of the gastrointestinal tract nausea, vomiting or diarrhea	
Polycat 8 Catalyst	1: Irritant 2: Toxic 4: Corrosive 6: Combustible	None Established		Neoprene gloves, goggles, protective clothing	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush eyes and skin with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Polycat 9 Catalyst	4: Corrosive	None Established		Neoprene gloves, goggles, slicker suit	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Removecontaminated clothing immediately, Report to medical immediately
Polycat 17 Catalyst	4: Corrosive	None Established		Neoprene gloves, goggles, slicker suit	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Removecontaminated clothing immediately, Report to medical immediately
Polycat 41 Catalyst	4: Corrosive	None Established		Neoprene gloves, goggles, slicker suit	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Removecontaminated clothing immediately, Report to medical immediately
Polyisoprene Cariflex IR-309	1: Irritant	None Established		Neoprene gloves	Eyes, Skin	Eye, skin	Flush with water 15 minutes, Removecontaminated clothing immediately, Report to medical immediately

Poly-Q 50-45 Crude	1: Irritant			Goggles or Face shield, butyl rubber gloves,	Eyes, Skin	Skin Irritation, Serious eye irritation	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins;
Poly-Solv EM	1: Irritant 2: Toxic 5: Flammable 6: Combustible	5 ppm PEL  0.1ppm TWA (ACGIH)		Butyl Rubber Gloves, goggles, respirator	Eye, skin and respiratory irritant CNS depressant Blood, kidney, liver and reproductive toxin	HARMFUL IF INHALED. May result in central nervous system (CNS) effects such as dizziness weakness, fatigue, nausea, headache, and lack of coordination; red blood cell hemolysis and possible kidney damage. Transient redness, swelling, and mucous membrane discharge to the conjunctiva. HARMFUL IF SWALLOWED. nausea, vomiting or diarrhea	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.
Poly-Solv DM	2: Toxic 6: Combustible	No Data		Butyl Rubber Gloves, goggles	Ingestion – CNS, liver, kidney and reproductive toxin	Eye Contact would be expected to cause transient redness if not washed out for an extended period of time. Nausea, vomiting or diarrhea. Ingestion of large quantities of this product may result in CNS depression.	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person
Poly-Solv TM	None	No Data		Butyl Rubber Gloves, goggles	Ingestion – mild irritant to gastrointestinal tract	There are no known or reported target organ effects from acute exposure.	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person

Poly-Solv FM	1: Irritant	No Data		Neoprene or Butyl Rubber Gloves, goggles	Eye and gastrointestinal irritant	Eye Contact would be expected to cause minor irritation, consisting of transient redness and swelling. Ingestion would cause nausea, vomiting, lethargy or diarrhea.	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes.  DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person
Poly-Solv FM-HB	none	No Data		Butyl Rubber Gloves, goggles	Skin, eye and gastrointestinal irritant	Eye Contact would be expected to cause transient redness if not washed out and left in the eye for an extended period of time. Ingestion would cause nausea, vomiting, lethargy or diarrhea.	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes.  DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person
Poly Solv MPE	1: Irritant 5: Flammable			Butyl gloves, Full Face OV respirator	Eyes, Skin, Inhalation	Serious eye irritation, Drowsiness or Dizziness	Flush with water 15 minutes. Remove contaminated clothing immediately. Report to medical immediately.
Poly-Solv MPM	1: Irritant 5: Flammable	No Data		Butyl Rubber Gloves, goggles, respirator	Eye, respiratory and gastrointestinal irritant; CNS depressant	Eye Contact would be expected to cause transient redness if not washed out and left in the eye for an extended period of time. Ingestion would cause nausea, vomiting, lethargy or diarrhea.	*move person into fresh air. If not breathing, give artificial respiration. Flush skin/eyes with water for 15 minutes. DO NOT induce vomiting unless directed by a physician.
Poly-Solv DPM	1: Irritant 6: Combustible	No Data		Butyl Rubber, Polyethylene or ethylene vinyl alcohol copolymer Gloves, goggles	Eye, skin, respiratory and gastrointestinal irritant; CNS depressant	Inhalation may cause irritation to the mucous membranes of the respiratory tract, drowsiness and dizziness. Skin Contact would be expected to cause transient redness if not washed off for an extended period of time. Eye Contact would be expected to cause minor irritation, consisting of transient redness and swelling. Ingestion would cause nausea, vomiting, lethargy or diarrhea. may result in central nervous system (CNS) depression	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes.  DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person

Poly-Solv TPM	1: Irritant	No Data		Neoprene Gloves, goggles	Eye and gastrointestinal irritant	Eye Contact would be expected to cause minor irritation, consisting of transient redness and swelling. Ingestion would cause nausea, vomiting, lethargy or diarrhea. may result in central nervous system (CNS) depression	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes. Immediately drink water to dilute.
Poly-Solv TPM-HB	1: Irritant	100 ppm		Impervious Gloves, goggles	Eye, skin, respiratory and gastrointestinal irritant	Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination. Contact would be expected to cause transient redness, swelling, and mucous membrane discharge to the conjunctiva. Ingestion of large quantities of this product may result in central nervous system (CNS) depression and nausea, vomiting, lethargy or diarrhea.	*move person into fresh air. If not breathing, give artificial respiration. Flush skin with water for 15 minutes. Flush eyes with water for 15 minutes. Immediately drink water to dilute.
Potassium Hydroxide (KOH)	4: Corrosive	200 ppm (liquid) 2 mg/m3		Neoprene gloves, boots, splash goggles, HF DM, PVC suit (liquid)	Eyes, Skin, Inhalation	Eye, skin, respiratory tract burns, shortness of breath, wheezing, choking, chest pain, lung function impairment	Flush skin and eyes with water 15minutes, Remove contaminated clothing immediately, Report to medical immediately
Potassium Octoate, 15%	2: Acute Toxicity, Oral 4: Corrosive 1: Irritant 2: Reproductive Toxicity	None Established		Full Face Respirator w/OV filter Goggles, Nitrile or chemical resistant gloves	Inhalation, Skin, Eye, Ingestion	Severe eye irritation, stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness. Coughing. Skin irritation, May cause redness and pain	Move to fresh air Remove contaminated close Flush skin or eyes with water for 15 minutes Rinse mouth Report to medical immediately
Primene Oil 81R	1: Irritant 2: Toxic 4: Corrosive			Full Face OVA, Butyl Rubber Gloves, Chemical Boots, Green Acid Suit	Eyes, Skin, Inhalation	Causes sever skin burns and eye damage, Toxic to skin, Allergic Skin Reaction, Fatal if Inhaled	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Propane	1: Irritant 5: Flammable 7: Asphyxiant	800 ppm		Neoprene gloves, boots, splash goggles, FF SA	Eyes, Skin, Inhalation	Eye, skin irritant, frostbite to skin, CHS, headache, nausea, lack of coordination	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately

Propanol	1: Irritant 2: Toxic 5: Flammable	200 ppm		Nitrile or Butyl Rubber Gloves, goggles, face shield, respirator, SCBA if levels exceed 10x PEL	Eye, skin, respiratory irritant; Toxic by ingestion		*move person into fresh air. If not breathing, give artificial respiration. Wash off with soap and plenty of water. Rinse mouth with water. Rinse thoroughly with plenty of water for at least 15 minutes
Propylene Oxide (PO)	1: Irritant 3: Carcinogen 5: Flammable 8: Sensitizer	100 ppm 2 ppm (TLV)		Tychem suit, Butyl Rubber gloves, boots, face shield, FF SA	Eyes, Skin, Mouth, Nose, Respiratory system	Nausea, Headache, Dizziness, Diarrhea, Shortness of breath, cyanosis, Skin Irritation & Blistering, Frostbite	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Pyridine	1: Irritant 2: Toxic 5: Flammable	5 ppm		Neoprene gloves, boots, goggles & face shield, slicker suit, HF OV, Cartridge Life = 48 hours	Eyes, Skin, Inhalation	Eye, skin and respiratory tract and mucous membrane irritant, bluish discoloration of skin	Flush eyes with water 15 minutes Remove to fresh air immediately, give oxygen, Report to medical immediately
R-22 (Fluorocarbon)	1: Irritant 7: Asphyxiant	1000 ppm		Normal daily PPE	Eyes, Skin, Inhalation / CNS depressant, cryogenic burn	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove to fresh air immediately, remove contaminated clothing, Report to medical immediately
R-134a (Fluorocarbon)	1: Irritant 7: Asphyxiant	1000 ppm		Normal daily PPE	Eyes, Skin, Inhalation / CNS depressant, cryogenic burn	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove to fresh air immediately, remove contaminated clothing, Report to medical immediately
R-141b (Fluorocarbon)	1: Irritant 7: Asphyxiant	500 ppm		Normal daily PPE	Eyes, Skin, Inhalation / CNS depressant, cryogenic burn	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove to fresh air, remove contaminated clothing, Report to medical immediately
Raney Nickel (Raney 3111)	1: Irritant 3: Carcinogen (suspect) 6: Combustible 8: Sensitizer	<a href="#">1 mg/ m3</a>	N/A	Neoprene gloves, boots, splash goggles, face shield	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Move to fresh air, Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Rubber Solution	1: Irritant 2: Toxic 5: Flammable	100 ppm		Neoprene gloves, face shield, HF OV, Cartridge Life = 3.5 hours (as Xylene and ethylbenzene)	Eyes, Skin, Inhalation, Ingestion	Eye, skin, respiratory tract irritant, headache drowsiness	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately

S-215	1: Irritant 5: Flammable	None Established		Neoprene gloves, splash goggles, tyvek suit, HF DM	Eyes, Skin, Inhalation / liver, kidneys	Corrosive to eyes and skin; eye, skin and respiratory tract sensitizer	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
SC-1	2: Toxic 4: Corrosive 8: Sensitizer			Full Face OVA, Butyl Rubber Gloves, Chemical Boots, Slicker Suit	Eyes, skin, Inhalation	May cause allergic skin reaction, cause serious eye damage, May cause allergy or asthma symptoms or breathing difficulties in inhaled	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins;
Scaletrol PDC9306	No Data			Neoprene Gloves	Eyes, Skin		Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins;
Solca Floc BW 40 Powder	1: Irritant	15 ppm		Kevlar gloves, particulate respirator	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Sodium Hydroxide (NaOH)	4: Corrosive	2 mg/ m3		Neoprene gloves, boots, splash goggles, face shield, impermeable suit, HF DM (s)	Eyes, Skin, Inhalation	Corrosive to eyes and skin; eye, skin and respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Sodium Hypochlorite	1: Irritant 4: Corrosive	2 mg/ m3 STEL (AIHA recommendation)		Goggles and face shield, natural rubber or vinyl gloves & boots, acid suit, HF OVA	Inhalation, skin and eyes contact, ingestion	Includes short term exposure. Lung irritation, burns, blisters and nausea breathing difficulty. Chemical burns, blisters, itching of skin, eye irritation or damage. Digestive tract burns, vomiting, convulsions and coma	Move to fresh air. Use bag valve ormask for rescue breathing. Flush eyes with water lifting eye lids occasionally until chemical is removed. Remove clothing and jewelry and wash with soap and water. Do not induce vomiting. Give milk. Report to medical immediately.
Sodium Methlyate 25%	1: Irritant 4: Corrosive 5: Flammable	200 ppm		Impervious Gloves, goggles, face shield, respirator	Corrosive to eyes, skin, gastrointestinal tract; Respiratory irritant		Move person into fresh air. If not breathing, give artificial respiration. Wash off with soap and plenty of water. Rinse mouth with water. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISONCENTER or doctor/ physician

Steam/Hot Condensate	Thermal Burn	None Established	NA	Impervious/Thermal gloves i.e. 14"Blue PROCOAT warehouse# 250975, 14" Knight Honeywell warehouse # not assigned	Skin	Skin Redness, Burn	Flush with cold water for 15 minutes, Report to medical immediately
Steamate NA 702 Corrosive Inhibitor	1: Irritant 2: Toxic 4: Corrosive 5: Flammable	10 ppm		Chemical Splash goggles w/ face shield, slicker suit, butyl gloves, chemical boots, FF OV respirator	Eyes, Skin, Inhalation, Ingestion	Toxic if inhaled, Causes severe skin burns, Severe eye damage, May cause respiratory irritation	Move to fresh air and keep person calm; Remove contaminated clothing and wash affected area with water; flush eyes for at least 15 min, remove contact lenses; do not induce vomiting
Styrene	1: Irritant 3: Carcinogen 5: Flammable	<a href="#">50 ppm TWA</a> , <a href="#">100 ppm STEL</a>	<a href="#">700 ppm</a>	Polyvinyl alcohol gloves, (avoid water) or supported Neoprene (Scorpio), boots, splash goggles, HF OV, Cartridge Life = 18 hours	Eyes, Skin, Mucous membranes	Skin, eye, respiratory tract irritation, drowsiness, memory loss, dizziness, loss of coordination	Flush eyes and skin with water 15 minutes, Remove to fresh air immediately, do not give CPR, do not induce vomiting. Report to medical immediately
Sulfamic Acid	4: Corrosive	None Established		Neoprene gloves, boots, splash goggles, apron, HF DM	Eyes, Skin, Inhalation, Mucous membrane	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Sulfuric Acid	2: Toxic 4: Corrosive	.2 mg/m <sup>3</sup>		Butyl Rubber or polyethylene gloves, boots, splash goggles, face shield, Tychem suit, HF OVR. *full face positive pressure respirator if exposure to vapor could be above TLV	Eyes, Skin, Inhalation, Ingestion	Corrosive to eyes and skin, lung toxin, headache, nausea, dizziness	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Tert-Butyl vinylether	1: Irritant 5: Flammable	None Established		Neoprene gloves, splash goggles, face shield	Eyes, Skin, Inhalation	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove to fresh air immediately, give oxygen, Report to medical immediately
Tertiary Butyl Acrylate	1: Irritant	2 ppm		Neoprene gloves, boots, splash goggles, face shield, HF OV, Cartridge Life = 127 hours	Eyes, Skin, Inhalation / liver, CNS, suspected fetal toxin	Corrosive to eyes, skin and respiratory tract	Flush with water 15 minutes, Remove to fresh air immediately, Report to medical immediately
Tetrahydrofuran	1: Irritant 5: Flammable	200 ppm		Neoprene gloves, acid suit, face shield, HF OV	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately

Tetramethylammonium Hydroxide	4: Corrosive	None Established		Neoprene gloves, splash goggles	Eyes, Skin, Inhalation / liver, kidneys	Corrosive to eyes and skin; eye, skin and respiratory tract sensitizer	Flush skin and eyes with water 15 minutes, Remove contaminated clothing immediately, give 2-4 cups of milk or water, and do not induce vomiting. Report to medical immediately
Texacat ZF-10 Catalyst	1: Irritant 4: Corrosive	None Established		Neoprene gloves, goggles, protective clothing	Eyes, Skin, Inhalation	Corrosive to eyes, skin and respiratory tract; Eye, skin, respiratory tract irritation	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Therminol Heat Transfer Fluid 55	1: Irritant	N/A	N/A	Rubber Gloves, Goggles, Face Shield	Skin, Eyes, Respiratory System	Skin, Eye, Respiratory Tract Irritation	Move to Fresh Air, Flush eyes/skin with water 15 minutes, Remove contaminated clothing, Report to Medical Immediately
Toluene Diisocyanate (TDI)	1: Irritant 2: Toxic 3: Carcinogen 8: Sensitizer	.005 ppm		Neoprene gloves, boots, splash goggles, face shield, FF SA	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Total Alkalinity Indicator	1: Irritant	None Established		Normal daily PPE	Eyes, Skin, Inhalation, Ingestion	Eye, skin, respiratory tract, gastrointestinal tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Triethylamine (TETN)	2: Toxic 4: Corrosive 5: Flammable	25 ppm		Neoprene gloves & boots, face shield & goggles, acid suit, HF AM, Cartridge Life = 8 hours	Eyes, Skin, Inhalation / liver, kidneys	Corrosive to eyes and skin; eye, skin and respiratory tract sensitizer	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
TEPA (triethylene pentaamine)	1: Irritant 2: Toxic 4: Corrosive	1 PPM		Supplied Air (SA), Butyl Rubber Gloves, Slicker Suit	Eyes, Skin, Inhalation	Causes severe skin burns and eye damage, Toxic to skin, Allergic Skin Reaction, Fatal if Inhaled	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
Therminol 59	1: Irritant	2 mg/m <sup>3</sup> (Monsanto)		PVC or Nitrile rubber gloves, face shield	Eyes, Skin, Inhalation, Ingestion	Eye, skin and respiratory tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Tyzor TnBt	1: Irritant 4: Corrosive 5: Flammable			Goggles or face shield, butyl rubber gloves	Eyes, Skin, Inhalation	Skin Irritation, Serious eye damage, May cause respiratory irritation, May cause drowsiness or dizziness	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting

Vazo 67/Perkadox AMBN	1: Irritant 5: Flammable	1 mg/ m <sub>3</sub> (Dupont)		Neoprene gloves, face shield, HF DM	Eyes, Skin, Inhalation	Eye, skin and respiratory tract and mucous membrane irritant	Flush with water 15 minutes, Remove to fresh air immediately, give oxygen, Report to medical immediately
Venpure SF Powder	1: Irritant 2: Toxic 4: Corrosive 5: Flammable	N/A	N/A	Nitril gloves, slicker suit, goggles, face shield, Dust mask	Eyes, Skin, Inhalation	Skin Irritation, serious eye irritation/ damage	Move to fresh air and keep at rest; Remove all contaminated clothing and wash with water; Do not rub eyes and flush with water for 15 mins; Rinse mouth, Do not induce vomiting
WS-5100	2: Toxic	None Established	N/A	OVA respirator, Nitrile Gloves, Safety glasses with side shields	Inhalation, Ingestion	No Data	Decom. Wash with soap and water flush with water 15 minutes. If swallowed, rinse mouth with water.
Xylene	1. Irritant 5: Flammable	100 ppm		Neoprene gloves, boots, splash goggles, face shield, HF OV, Cartridge Life = 3.5 hours	Eyes, Skin, Inhalation	Eye, skin, respiratory tract irritant	Flush skin and eyes with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Xylenols	2: Toxic 4: Corrosive	5 ppm		Nitrile or PVC gloves, boots, face shield & goggles, slicker suit, HF OV	Eyes, Skin, Inhalation / liver, kidneys	Corrosive to eyes and skin; eye, skin and respiratory tract sensitizer	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately
Zeolite Molecular Sieve	1: Irritant	10 mg/m <sup>3</sup>		Normal daily PPE	Eyes, Skin, Inhalation, Ingestion	Eye, skin, respiratory tract, gastrointestinal tract irritant	Flush with water 15 minutes, Remove contaminated clothing immediately, Report to medical immediately