

PRO-SET® ADV-276-QC HARDENER

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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Version: ADV-276-QC-2020a

SECTION 1: Identification

Identification

Product form : Mixture
Product name : PRO-SET® ADV-276-QC HARDENER
Product code : ADV-276-QC, ADV-276-QC-0, ADV-276-QC-2, ADV-276-QC-4
Chemical family : Polyamine mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Curing agent for epoxy adhesive resins

Details of the supplier of the safety data sheet

Manufacturer

Gougeon Brothers, Inc
100 Patterson Ave.
Bay City, MI 48706 - U.S.A.
T 888-377-6738 or 989-684-7286
www.prosetepoxy.com

Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300
CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazard identification

Classification of the substance or mixture

Acute Tox. 4 (Oral)
Acute Tox. 4 (Inhalation)
Skin Corr. 1B
Eye Dam. 1
Resp. Sens. 1
Skin Sens. 1
Repr. 2
STOT SE 3
STOT RE 2
HHNOC 1
Aquatic Acute 1
Aquatic Chronic 1

Label elements

Hazard pictograms (GHS)



GHS05

GHS07

GHS08

GHS09

Signal word (GHS)

Danger

Hazard statements (GHS)

Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist, vapours, spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, protective clothing, eye protection, face protection. In case of inadequate ventilation wear respiratory protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

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easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Immediately call a poison center or doctor. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center or doctor. Wash contaminated clothing before reuse. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards

No additional information available

Unknown acute toxicity

No additional information available

SECTION 3: Composition/information on ingredients

Substances

Not applicable

Mixtures

Name	Product identifier	%
Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol	(CAS-No.) 25265-17-2	10 – 30
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	(CAS-No.) 68683-29-4	10 – 30
Poly[oxy(methyl-1,2-ethanediy)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- Isophoronediamine	(CAS-No.) 9046-10-0 (CAS-No.) 2855-13-2	10 – 30 7 – 13
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	(CAS-No.) 57214-10-5	7 – 13
Fatty acids, C18-unsaturated, dimers, reaction products with 1-piperazineethanamine and tall-oil fatty acids	(CAS-No.) 206565-89-1	5 – 10
Phenol	(CAS-No.) 108-95-2	3 – 7
Silica, amorphous, fumed, crystalline-free	(CAS-No.) 112945-52-5	3 – 7
Glass, oxide, chemicals	(CAS-No.) 65997-17-3	3 – 7
1,3-Benzenedimethanamine	(CAS-No.) 1477-55-0	1 – 5
Diethylenetriamine-bisphenol A-epichlorohydrin polymer	(CAS-No.) 31326-29-1	1 – 5
Diethylenetriamine	(CAS-No.) 111-40-0	0.5 – 1.5
4-tert-Butylphenol	(CAS-No.) 98-54-4	0.5 – 1.5

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold. Refer to Section 15 for additional information regarding this CBI claim.

SECTION 4: First-aid measures

Description of first aid measures

- First-aid measures after inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately call a POISON CENTER/doctor.
- First-aid measures after skin contact** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.
- First-aid measures after eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- First-aid measures after ingestion** : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation** : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
- Symptoms/effects after skin contact** : Causes severe burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.
- Symptoms/effects after eye contact** : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/effects after ingestion** : Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

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SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides. Amines. Ammonia. Nitric acid. Aldehydes. Nitrosamines. When mixed with sawdust, wood chips, or other cellulosic material, spontaneous combustion can occur under certain conditions. Heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust.

Reactivity : No dangerous reaction known under conditions of normal use.

Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray or fog for cooling exposed containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel

No additional information available

For emergency responders

No additional information available

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Do not absorb in sawdust, paper, cloth or other combustible absorbents.

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, vapours, spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. When mixed with epoxy resin this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Protect from moisture. Storage temperature : 40 °F (4 °C) – 90 °F (32 °C).

SECTION 8: Exposure controls/personal protection

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No additional information available

Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol (25265-17-2)

Refer to Isophoronediamine

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Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
No additional information available	
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated (68683-29-4)	
No additional information available	
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) (57214-10-5)	
No additional information available	
Isophoronediamine (2855-13-2)	
No additional information available	
Phenol (108-95-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	19 mg/m ³
ACGIH OEL TWA [ppm]	5 ppm
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	19 mg/m ³
OSHA PEL TWA [2]	5 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL C	60 mg/m ³
NIOSH REL C [ppm]	15.6 ppm
Silica, amorphous, fumed, crystalline-free (112945-52-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 mg/m ³ (Inhalable) 3 mg/m ³ (Respirable)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	6 mg/m ³ (Amorphous silica) 15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
1,3-Benzenedimethanamine (1477-55-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL C	0.1 mg/m ³ (skin)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL C	0.1 mg/m ³ (Table Z 1A)
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL C	0.1 mg/m ³
US-NIOSH chemical category	Potential for dermal absorption
Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1)	
Refer to Diethylenetriamine	
Diethylenetriamine (111-40-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	1 ppm (skin)
Fatty acids, C18-unsaturated, dimers, reaction products with 1-piperazineethanamine and tall-oil fatty acids (206565-89-1)	
No additional information available	
4-tert-Butylphenol (98-54-4)	
No additional information available	
Glass, oxide, chemicals (65997-17-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 mg/m ³ (Inhalable) 3 mg/m ³ (Respirable)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)

Exposure controls

Appropriate engineering controls

: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection

: Wear chemically resistant protective gloves.

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Eye protection	: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Gel
Colour	: Blue
Odour	: Ammonia
Odour threshold	: No data available
pH	: Estimated to be between 10-12.5 based on ingredient data
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 400 °F (204°C) estimated based on similar product
Flash point	: > 200 °F (93°C) estimated based similar product
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: < 1 mm Hg estimated based on ingredient data
Relative vapour density at 20 °C	: No data available
Relative density	: 1.04
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

Other information

VOC content	: ASTM 2369-07 was used to determine the Volatile Matter Content of mixed epoxy resin and hardener. The combined VOC content for the resin and hardener system is listed below. ADV-176 / ADV-276: 7.69 g/L / 0.06 lb/gal ADV-175 / ADV-276: 4.34 g/L / 0.04 lb/gal
Bulk density	: 8.65 lb/gal (1.04 kg/L)

SECTION 10: Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use. A mass of more than one pound of product plus an epoxy resin will cause irreversible polymerization with significant heat buildup and pressure.
Conditions to avoid	: Heat. Incompatible materials.

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Incompatible materials	: Acids. Oxidizing materials. Halogenated compounds.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon. Nitrogen oxides. Amines. Ammonia. Nitric acid. Aldehydes. Nitrosamines.

SECTION 11: Toxicological information

Information on toxicological effects

Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol (25265-17-2)	
Refer to Isophoronediamine	

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
LD50 oral rat	2885 mg/kg
LD50 dermal rabbit	2980 nl/kg
LC50 inhalation rat	> 0.74 mg/l/8h (vapour)

Isophoronediamine (2855-13-2)	
LD50 oral rat	1030 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5.01 mg/l/4h (dust/mist)

Phenol (108-95-2)	
LD50 oral rat	317 mg/kg
LD50 dermal rabbit	630 mg/kg (solid)
LC50 inhalation rat	900 mg/m ³ /8h (solid)

Silica, amorphous, fumed, crystalline-free (112945-52-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

1,3-Benzenedimethanamine (1477-55-0)	
LD50 oral rat	980 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat	1.34 mg/l/4h (dust/mist)

Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1)	
LD50 oral rat	1620 mg/kg

Diethylenetriamine (111-40-0)	
LD50 oral rat	1080 mg/kg
LD50 dermal rabbit	1090 mg/kg
LC50 inhalation rat	0.07 – 0.3 mg/l/4h aerosol/mist

4-tert-Butylphenol (98-54-4)	
LD50 oral rat	> 2000 mg/kg

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Harmful if inhaled.
Skin corrosion/irritation	: Causes severe skin burns. pH: Estimated to be between 10-12.5 based on ingredient data
Serious eye damage/irritation	: Causes serious eye damage. pH: Estimated to be between 10-12.5 based on ingredient data
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

Phenol (108-95-2)	
IARC group	3 - Not classifiable

Silica, amorphous, fumed, crystalline-free (112945-52-5)	
IARC group	3 - Not classifiable

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Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes severe burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause stomach distress, nausea or vomiting.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) (57214-10-5)	
LC50 - Fish [1]	25.9 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Isophoronediamine (2855-13-2)	
EC50 - Crustacea [1]	14.6 – 21.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static])
Phenol (108-95-2)	
LC50 - Fish [1]	11.9 – 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	4.24 – 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 - Fish [2]	20.5 – 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	10.2 – 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
1,3-Benzenedimethanamine (1477-55-0)	
LC50 - Fish [1]	87.6 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])
Diethylenetriamine (111-40-0)	
LC50 - Fish [1]	248 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 - Crustacea [1]	16 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	1014 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
4-tert-Butylphenol (98-54-4)	
LC50 - Fish [1]	4.71 – 5.62 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3.9 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	6.9 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
EC50 - Crustacea [2]	3.4 – 4.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Persistence and degradability

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Persistence and degradability	Not established.

Bioaccumulative potential

PRO-SET® ADV-276-QC HARDENER	
Bioaccumulative potential	Not established.
Isophoronediamine (2855-13-2)	
Partition coefficient n-octanol/water	0.79 (at 23 °C)
Phenol (108-95-2)	
BCF - Fish [1]	(no significant bioaccumulation)
Partition coefficient n-octanol/water	1.5
Diethylenetriamine (111-40-0)	
BCF - Fish [1]	0.3 – 1.7
Partition coefficient n-octanol/water	-1.3

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4-tert-Butylphenol (98-54-4)	
BCF - Fish [1]	34 – 240
Partition coefficient n-octanol/water	2.44

Mobility in soil

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Ecology - soil	No additional information available.

Other adverse effects

Other information : Avoid release to the environment.

Ingredient	CAS#	Ecotoxicity Classification Information
Isophoronediamine, reaction products with phenol and formaldehyde	25265-17-2	Refer to Isophoronediamine
Polyoxypropylenediamine	9046-10-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 2
2-Propenenitrile polymer with 1,3-butadiene	68683-29-4	Not classified
Benzene-1,3-dimethanamine, reaction products with phenol and formaldehyde	57214-10-5	Acute Aquatic Cat. 1; Chronic Aquatic Cat. 1
Isophoronediamine	2855-13-2	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Tall Oil Fatty Acids, C18-unsatd., dimers, reaction products with 1-piperazineethanamine	206565-89-1	Acute Aquatic Cat. 1; Chronic Aquatic Cat. 1; M = 10
Hydroxybenzene	108-95-2	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 2
Synthetic amorphous, pyrogenic silica	112945-52-5	Not classified
Glass oxide	65997-17-3	Not classified
Benzene-1,3-dimethanamine	1477-55-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Polymer of epichlorohydrin / bisphenol A and diethylenetriamine	31326-29-1	Not classified
Diethylenetriamine	111-40-0	Not classified
4-tert-butylphenol	98-54-4	Acute Aquatic Cat. 2; Chronic Aquatic Cat. 1

SECTION 13: Disposal considerations

Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

UN-No.(DOT/TDG) : UN3259
Proper Shipping Name (DOT/TDG) : Polyamines, solid, corrosive n.o.s. (Polyoxypropylenediamine)
Class (DOT/TDG) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT/TDG) : III
Dangerous for the environment : Yes
Marine pollutant : Yes



Transport by sea

In accordance with IMDG

UN-No. (IMDG) : 3259
Proper Shipping Name (IMDG) : POLYAMINES, SOLID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)

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Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III
EmS-No. (1)	: F-A, S-B
Marine pollutant	: Yes

Transport by air

In accordance with IATA	
UN-No. (IATA)	: 3259
Proper Shipping Name (IATA)	: Polyamines, solid, corrosive, n.o.s. (Polyoxypropylenediamine)
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III
Marine pollutant	: Yes

SECTION 15: Regulatory information

Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA).

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except for:

Fatty acids, C18-unsaturated, dimers, reaction products with 1-piperazineethanamine and tall-oil fatty acids	CAS-No. 206565-89-1
Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol (25265-17-2)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated (68683-29-4)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) (57214-10-5)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Phenol (108-95-2)	
Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 – 10000 lb
SARA Section 313 - Emission Reporting	1 %
Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Fatty acids, C18-unsaturated, dimers, reaction products with 1-piperazineethanamine and tall-oil fatty acids (206565-89-1)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. S - S - indicates a substance that is identified in a final Significant New Use Rule.
Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated (68937-54-2)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

International regulations

No additional information available

PRO-SET® ADV-276-QC HARDENER

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

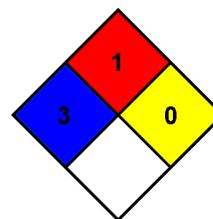
US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Isophoronediamine (2855-13-2)
U.S. - New Jersey - Right to Know Hazardous Substance List
Phenol (108-95-2)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
1,3-Benzenedimethanamine (1477-55-0)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Diethylenetriamine (111-40-0)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
1-Piperazineethanamine (140-31-8)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
2-Butoxyethanol (111-76-2)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Benzyl alcohol (100-51-6)
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Issue date	: 10/14/2020
Revision date	: 11/06/2020
Other information	: None.
NFPA health hazard	: 3
NFPA fire hazard	: 1
NFPA reactivity	: 0



Hazard Rating	
Health	: 3 Serious Hazard
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.