

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

Date of issue: 09/14/2016

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Version: ADV-277-QC-2019a

SECTION 1: Identification

Identification

Product form : Mixtures
Product name : PRO-SET® ADV-277-QC HARDENER
Product code : ADV-277-QC, ADV-277-QC-0, ADV-277-QC-2, ADV-277-QC-4

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.prosetepox.com

Emergency telephone number

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

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Acute Tox. 4 (Oral)
Acute Tox. 4 (Inhalation)
Skin Corr. 1B
Eye Dam. 1
Skin Sens. 1
Muta. 2
STOT RE 2
Aquatic Acute 2
Aquatic Chronic 2

Label elements

Hazard pictograms (GHS)



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. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. 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. 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 easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Collect spillage. 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

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

Unknown acute toxicity

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Mixtures

| Name | Product identifier | HPR % |
|--|----------------------|-----------|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) | (CAS No) 39423-51-3 | 10 - 30 |
| Benzyl alcohol | (CAS No) 100-51-6 | 10 - 30 |
| Isophorone diamine | (CAS No) 2855-13-2 | 10 - 30 |
| Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol | (CAS No) 25265-17-2 | 7 - 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 | 5 - 10 |
| Silica, amorphous, fumed, crystalline-free | (CAS No) 112945-52-5 | 5 - 10 |
| Diethylenetriamine-bisphenol A-epichlorohydrin polymer | (CAS No) 31326-29-1 | 1 - 5 |
| Phenol | (CAS No) 108-95-2 | 1 - 5 |
| 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane | (CAS No) 26950-63-0 | 1 - 5 |
| Diethylenetriamine | (CAS No) 111-40-0 | 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.

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 or doctor/physician.
- First-aid measures after skin contact** : IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
- 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 or doctor/physician.

Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation** : Harmful if inhaled. May cause respiratory tract irritation.
- Symptoms/injuries after skin contact** : May cause an allergic skin reaction. Symptoms may include redness, pain, blisters. Causes severe burns.
- Symptoms/injuries 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/injuries 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).

SECTION 5: Firefighting measures

Extinguishing media

- Suitable extinguishing media** : Foam. Carbon dioxide. Dry chemical.
- Unsuitable extinguishing media** : Do not use a heavy water stream.

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

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. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. 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. Store in a dry, cool and well-ventilated place. Protect from moisture. Storage temperature : 40°F (4°C) - 90°F (32°C).

SECTION 8: Exposure controls/personal protection

Control parameters

| | | |
|--|----------------|--------|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3) | | |
| Not applicable | | |
| Benzyl alcohol (100-51-6) | | |
| AIHA | WEEL TWA (ppm) | 10 ppm |
| Isophorone diamine (2855-13-2) | | |
| Not applicable | | |

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

| | | |
|--|--|---|
| Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol (25265-17-2) | | |
| Not applicable | | |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated (68683-29-4) | | |
| Not applicable | | |
| Silica, amorphous, fumed, crystalline-free (112945-52-5) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ (Inhalable) 3 mg/m ³ (Respirable) |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 6 mg/m ³ (Amorphous silica) 15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable) |
| Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1) | | |
| Not applicable | | |
| Phenol (108-95-2) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 19 mg/m ³ |
| ACGIH | ACGIH TWA (ppm) | 5 ppm |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 19 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 5 ppm |
| IDLH | US IDLH (ppm) | 250 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 19 mg/m ³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 5 ppm |
| NIOSH | NIOSH REL (ceiling) (mg/m ³) | 60 mg/m ³ |
| NIOSH | NIOSH REL (ceiling) (ppm) | 15.6 ppm |
| 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane (26950-63-0) | | |
| Not applicable | | |
| Diethylenetriamine (111-40-0) | | |
| ACGIH | ACGIH TWA (ppm) | 1 ppm |

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.

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

: 10-12.5 (estimated based on ingredient data)

Melting point

: No data available

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

| | |
|---|---|
| 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) | : Not flammable |
| Vapour pressure | : < 1 mm Hg (estimated based on ingredient data) |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.02 |
| 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 | : 11.44 g/l (0.10 lb/gal) |
| Bulk density | : 8.56 lb/gal (1.02kg/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. |
| 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

| | |
|--|----------------|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3) | |
| LD50 oral rat | 550 mg/kg |
| LD50 dermal rabbit | > 1000 mg/kg |
| Benzyl alcohol (100-51-6) | |
| LD50 oral rat | 1620 mg/kg |
| LC50 inhalation rat | > 4.18 mg/l/4h |
| Isophorone diamine (2855-13-2) | |
| LD50 oral rat | 1030 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat | > 5.01 mg/l/4h |
| Silica, amorphous, fumed, crystalline-free (112945-52-5) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1) | |
| LD50 oral rat | 1620 mg/kg |

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

| Phenol (108-95-2) | |
|--------------------------|-------------|
| LD50 oral rat | 317 mg/kg |
| LD50 dermal rabbit | 630 mg/kg |
| LC50 inhalation rat | 0.9 mg/l/8h |

| 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane (26950-63-0) | |
|--|--------------------|
| LD50 oral rat | > 2000 mg/kg (ATE) |
| LD50 dermal rabbit | > 2000 mg/kg (ATE) |

| 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 |

| | |
|--|---|
| Acute toxicity (oral) | : Harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified. |
| Acute toxicity (inhalation) | : Harmful if inhaled. |
| Skin corrosion/irritation | : Causes severe skin burns. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Suspected of causing genetic defects. |
| Carcinogenicity | : Not classified. |

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

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

| | |
|-------------------------------|--|
| Reproductive toxicity | : Not classified. |
| STOT-single exposure | : Not classified. |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified. |

| | |
|--|--|
| Potential adverse human health effects and symptoms | : Harmful if inhaled. Harmful if swallowed. |
| Symptoms/injuries after inhalation | : Harmful if inhaled. May cause respiratory tract irritation. |
| Symptoms/injuries after skin contact | : May cause an allergic skin reaction. Symptoms may include redness, pain, blisters. Causes severe burns. |
| Symptoms/injuries 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/injuries 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 | : Toxic to aquatic life with long lasting effects. |

| Benzyl alcohol (100-51-6) | |
|----------------------------------|--|
| LC50 fish 1 | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 23 mg/l (Exposure time: 48 h - Species: water flea) |
| LC50 fish 2 | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |

| Isophorone diamine (2855-13-2) | |
|---------------------------------------|---|
| EC50 Daphnia 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 Daphnia 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]) |

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

| Phenol (108-95-2) | |
|-------------------|---|
| EC50 Daphnia 2 | 10.2 - 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| Diethylenetriamine (111-40-0) | |
|-------------------------------|--|
| LC50 fish 1 | 248 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static]) |
| EC50 Daphnia 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]) |

Persistence and degradability

| PRO-SET® ADV-277-QC HARDENER | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

Bioaccumulative potential

| PRO-SET® ADV-277-QC HARDENER | |
|------------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Benzyl alcohol (100-51-6) | |
|---------------------------------------|-----|
| Partition coefficient n-octanol/water | 1.1 |

| Isophorone diamine (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 |

Mobility in soil

| PRO-SET® ADV-277-QC HARDENER | |
|------------------------------|--------------------------------------|
| Ecology - soil | No additional information available. |

Other adverse effects

Effect on the global warming : No known effects from this product.

| Name | Product identifier | Ecotoxicity Classification Information |
|--|----------------------|--|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) | (CAS No) 39423-51-3 | Acute Aquatic Cat. 2; Chronic Aquatic Cat. 2 |
| Benzyl alcohol | (CAS No) 100-51-6 | No data available |
| Isophorone diamine | (CAS No) 2855-13-2 | Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3 |
| Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol | (CAS No) 25265-17-2 | No data available |
| 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 | No data available |
| Silica, amorphous, fumed, crystalline-free | (CAS No) 112945-52-5 | No data available |
| Diethylenetriamine-bisphenol A-epichlorohydrin polymer | (CAS No) 31326-29-1 | No data available |
| Phenol | (CAS No) 108-95-2 | Acute Aquatic Cat. 3; Chronic Aquatic Cat. 2 |
| 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane | (CAS No) 26950-63-0 | Aquatic Chronic Cat. 3 |
| Diethylenetriamine | (CAS No) 111-40-0 | No data available |

Other information : Avoid release to the environment.

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)

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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

In accordance with DOT and TDG

| | |
|--------------------------------|--|
| UN-No. (DOT/TDG) | : UN3259 |
| Proper Shipping Name (DOT/TDG) | : Polyamines, solid, corrosive n.o.s. (Trimethylolpropane polyoxpropylenetriamine) |
| Class (DOT/TDG) | : 8 |
| Packing group (DOT/TDG) | : III |
| Marine pollutant | : No |

Transport by sea

In accordance with IMDG

| | |
|-----------------------------|---|
| UN-No. (IMDG) | : 3259 |
| Proper Shipping Name (IMDG) | : POLYAMINES, SOLID, CORROSIVE, N.O.S. (Trimethylolpropane polyoxpropylenetriamine) |
| Class (IMDG) | : 8 |
| Packing group (IMDG) | : III |
| EmS Number | : 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. (Trimethylolpropane polyoxpropylenetriamine) |
| Class (IATA) | : 8 |
| 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) inventory.

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.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro.-omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3)

| | |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
|--------------------------|---|

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 Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
|--------------------------|---|

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 Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
|--------------------------|---|

Diethylenetriamine-bisphenol A-epichlorohydrin polymer (31326-29-1)

| | |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
|--------------------------|---|

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 % |

PRO-SET® ADV-277-QC HARDENER

Safety Data Sheet

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1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane (26950-63-0)

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

International regulations

No additional information available

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

Benzyl alcohol (100-51-6)

U.S. - Pennsylvania - RTK (Right to Know) List

Isophorone diamine (2855-13-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

Phenol (108-95-2)

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

Diethylenetriamine (111-40-0)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Date of issue : 09/14/2016

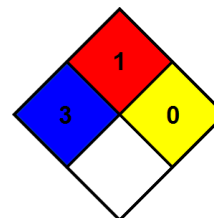
Revision date : 01/25/2019

Other information : None.

NFPA health hazard : 3

NFPA fire hazard : 1

NFPA reactivity : 0



HMIS III Rating

Health : 3 Serious Hazard

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

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