

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... PRO-SET® ADV-273-NC HARDENER
APPLICABLE PRODUCT CODES: ADV-273-NC, ADV-273-NC-0, ADV-273-NC-2, ADV-273-NC-4
CHEMICAL FAMILY:..... Polyamine mixture.
INTENDED PRODUCT USES:..... Curing agent for epoxy adhesive resins.
PRODUCT RESTRICTIONS:..... None identified.
SDS VERSION: ADV-273-NC-2017a

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

EMERGENCY TELEPHONE NUMBERS (24 HRS):
Transportation
CHEMTREC: 800-424-9300 (U.S.)
703-527-3887 (International)
Non-transportation
Poison Hotline: 800-222-1222

2. HAZARDS IDENTIFICATION

Classification of Substance or Mixture

Acute toxicity – Oral, Category 4
Acute toxicity – Inhalation, Category 4
Skin corrosion/irritation, Category 1B
Respiratory sensitizer, Category 1
Skin sensitizer, Category 1
Eye damage/irritation, Category 1
Germ cell mutagenicity, Category 2
Reproductive toxicity, Category 2
Specific target organ toxicity – single exposure, Category 3
Specific target organ toxicity – repeated exposure, Category 2
Acute aquatic toxicity, Category 2
Chronic aquatic toxicity, Category 2

Label Elements

Hazard Pictogram(s):



Signal Word:
DANGER

Hazard Statements:

H302 Harmful if swallowed
H332 Harmful if inhaled
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H341 Suspected of causing genetic defects
H361 Suspected of damaging fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention

P201 Obtain special instruction before use
P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe dusts/fumes/gas/mists/vapors/spray
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P271 Use only outdoors or in a well ventilated area
P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P284 In case of inadequate ventilation wear respiratory protection

Response

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P301 + P330 + 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse or wash skin with soap and water (or shower).
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical attention or advice
 P310 Immediately call a POISON CONTROL CENTER or doctor
 P333 + P313 If skin irritation or rash occurs: Get medical attention/advice
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage
Storage
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
Disposal
 P501 Dispose of contents and container according to local, state, national and International regulations

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS #	CONCENTRATION (%)
Triethylenetetramine, reaction products with phenol and formaldehyde	32610-77-8	10-40
Benzyl alcohol	100-51-6	10-40
Mercaptan-terminated polymer (Non-hazardous)	Not available	10-40
Triethylenetetramine	112-24-3	1-15
Alicyclic aliphatic polyamine	Trade Secret	1-10
Benzene-1,3-dimethanamine, reaction products with phenol and formaldehyde	57214-10-5	1-10
Synthetic amorphous, pyrogenic silica	112945-52-5	1-10
2-Piperazin-1-yl-ethylamine	140-31-8	1-10
Hydroxybenzene	108-95-2	1-10
Polymer of epichlorohydrin / bisphenol A and diethylenetriamine	31326-29-1	1-10
Alkyletheramine	Trade Secret	1-10
Alkylphenol	Trade Secret	1-10
Benzene-1,3-dimethanamine	1477-55-0	1-5
Diethylenetriamine	111-40-0	0.1-2

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 any CBI claim.

4. FIRST AID MEASURES

FIRST AID FOR EYES..... SYMPTOMS: Causes eye burns and eye damage. RESPONSE: Flush immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Immediately call a POISON CONTROL CENTER or doctor.

FIRST AID FOR SKIN..... SYMPTOMS: Causes skin burns, redness and irritation. May cause allergic skin reaction and sensitization. RESPONSE: Immediately wash skin with soap and water. Immediately call a POISON CONTROL CENTER or doctor.

FIRST AID FOR INHALATION..... SYMPTOMS: Can cause respiratory irritation, shortness of breath or cough. May give off gas, vapor or mist that is very irritating or corrosive to the respiratory system. May cause allergy, asthma symptoms or breathing difficulties if inhaled. Serious effects may be delayed following exposure. RESPONSE: Remove to fresh air if effects occur and keep comfortable for breathing. Immediately call a POISON CONTROL CENTER or doctor if symptoms develop and persist.

FIRST AID FOR INGESTION..... SYMPTOMS: May cause gastrointestinal irritation or ulceration. May cause burns of the mouth and throat. RESPONSE: Rinse mouth with water. DO NOT induce vomiting. If vomiting should occur, keep airway clear. Immediately call POISON CONTROL CENTER or doctor.

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5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: SUITABLE: Foam, carbon dioxide (CO₂), dry chemical. NON-SUITABLE: Direct, high-pressure water stream.

FIRE AND EXPLOSION HAZARDS: During a fire, smoke may contain the original materials in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: oxides of nitrogen, carbon monoxide, carbon dioxide, volatile 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.

SPECIAL FIRE FIGHTING PROCEDURES: Use full-body protective gear and a self-contained breathing apparatus. Use of water may generate toxic aqueous solutions. Do not allow water run-off from fighting fire to enter drains or other water courses.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8.

MITIGATION AND CLEAN UP PROCEDURES: Stop leak without additional risk. Isolate area. Dike and absorb with inert material (e.g., sand) and collect in a suitable, closed container. Do not use sawdust, wood chips or other cellulosic materials to absorb the spill, as the possibility for spontaneous combustion exists. Warm, soapy water may be used to clean residual.

ENVIRONMENTAL PRECAUTIONS: Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (min./max.): 40°F (4°C) / 90°F (32°C).

STORAGE: Store in a cool, dry and well-ventilated place away from high temperatures and moisture. Keep container tightly closed. Store in a secure location with restricted access or store locked up.

HANDLING PRECAUTIONS: Do not handle until all safety precautions have been read and understood. Use only with adequate ventilation. Do not breathe vapors or mists from heated material. Avoid exposure to concentrated vapors. Avoid skin and eye contact. Wash thoroughly after handling. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION GUIDELINES: Chemical splash-proof goggles or face shield.

SKIN PROTECTION GUIDELINES: Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing. Persons with a history of skin sensitization problems may need to avoid using this product entirely.

RESPIRATORY/VENTILATION GUIDELINES: Use with adequate general ventilation and/or local ventilation to keep exposures below established limits. When ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator with an organic vapor cartridge, organic vapor cartridge + P100, or a multi-contaminant cartridge, depending on specific workplace conditions. Consult with your respirator and cartridge supplier to ensure proper selection of respirator and cartridge based on ingredients listed in Section 3 and specific workplace conditions. Use and select a respirator according the guidelines established in OSHA 1910.134 or other applicable respiratory protection standard. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

ADDITIONAL PROTECTIVE MEASURES: Use where there is immediate access to safety shower and emergency eye wash. Wash thoroughly after use. Contact lens should not be worn when working with this material. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

OCCUPATIONAL EXPOSURE LIMITS: Exposure limits may not be established for this product as a whole. For established exposure limits of specific ingredients in this product, or other available exposure limit information, refer to the table below.

Ingredient Name	CAS#	Exposure Limit Information
Triethylenetetramine, reaction products with phenol and formaldehyde	32610-77-8	No data available
Benzyl alcohol	100-51-6	10 ppm TWA (WEEL)
Mercaptan-terminated polymer (Non-hazardous)	Not available	No data available
Triethylenetetramine	112-24-3	AIHA WEEL: 1 ppm ; 6 mg/ m ³ ; Absorbed via skin
Alicyclic aliphatic polyamine	Trade Secret	No data available
Benzene-1,3-dimethanamine, reaction products with phenol and formaldehyde	57214-10-5	No data available
Synthetic amorphous, pyrogenic silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m ³ Dust and PNOS: ACGIH 10mg/m ³ , TWA, Inhalable; 3

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		mg/m ³ , TWA, Respirable; OSHA PEL 15 mg/m ³ , TWA, total dust; 5 mg/m ³ , TWA, Respirable
2-Piperazin-1-yiethylamine	140-31-8	No data available
Hydroxybenzene	108-95-2	ACGIH TWA: 5 ppm; 19 mg/kg NIOSH REL: 5 ppm; 19 mg/kg OSHA PEL: 5 ppm; 19 mg/kg NIOSH CEILING: 15.6 ppm; 60 mg/kg
Polymer of epichlorohydrin / bisphenol A and diethylenetriamine	31326-29-1	No data available (reference Diethylenetriamine)
Alkyletheramine	Trade Secret	No data available
Alkylphenol	Trade Secret	No data available
Benzene-1,3-dimethanamine	1477-55-0	NIOSH CEILING: 0.1 mg/m ³ ; Remarks: Potential for dermal absorption. ACGIH TLV CEILING: 0.1 mg/m ³ ; SKIN OSHA CEILING: 0.1 mg/m ³ ; Table Z 1A
Diethylenetriamine	111-40-0	ACGIH TWA 1ppm; SKIN

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Gel.
COLOR: Colorless.
ODOR: Ammonia-like
ODOR THRESHOLD: No data available
pH: 11.2
MELTING POINT / FREEZING POINT No data.
BOILING POINT (760mm/Hg): > 400°F (204°C) estimated based on similar product.
FLASH POINT: Estimated > 200°F (93°C) estimated based similar product.
AUTO IGNITION TEMPERATURE No data.
LOWER EXPLOSIVE LIMIT (LEL) No data.
UPPER EXPLOSIVE LIMIT (UEL) No data.
VAPOR PRESSURE < 1 mmHg @ 20°C (estimated based on ingredient data).
SPECIFIC GRAVITY/DENSITY (water = 1) 1.05
BULK DENSITY 8.75 lbs./gal. (1.05kg/L)
VAPOR DENSITY (air = 1) No data.
EVAPORATION RATE (Butyl Acetate = 1) No data.
WATER SOLUBILITY (% BY WT.) No data.
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow) No data.
KINEMATIC VISCOSITY: Gel. (mm²/s @ 20°C)
DECOMPOSITION TEMPERATURE: No data available.
% VOLATILE BY WEIGHT: 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.

Resin/Hardener	VOC Content	
	(g/L)	(lb/gal)
ADV-175 / ADV-273	8.65	0.07

10. STABILITY AND REACTIVITY

STABILITY: Product is stable at normal temperatures and pressures.
REACTIVITY/HAZARDOUS REACTIONS: Product will not react by itself. A mass of more than one pound of product plus an epoxy resin will cause irreversible polymerization with significant heat buildup and pressure.
INCOMPATIBILITIES: Avoid acids, oxidizing materials, halogenated organic compounds (e.g., methylene chloride). External heating could result in rapid temperature increase and pressure build up. If such a condition were to occur in a drum, the drum could expand and rupture violently.
CONDITIONS TO AVOID: Avoid heating or processing at temperatures greater than 120°F (48°C).
DECOMPOSITION PRODUCTS: Very toxic fumes and gases when burned or otherwise heated to decomposition. Decomposition products may include, but not limited to: oxides of nitrogen, carbon monoxide, carbon dioxide, volatile amines, ammonia, nitric acid, aldehydes, nitrosamines.

11. TOXICOLOGICAL INFORMATION

Ingredient Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Triethylenetetramine, reaction products with phenol and formaldehyde	32610-77-8	No data available	No data available	No data available
Benzyl alcohol	100-51-6	1620 mg/kg	No data available	>4.18 mg/l 4h aerosol
Mercaptan-terminated polymer (Non-hazardous)	Not available	No data available	No data available	No data available
Triethylenetetramine	112-24-3	1716 mg/kg	1465 mg/kg	No data

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Alicyclic aliphatic polyamine	Trade Secret	No data available	No data available	No data available
Benzene-1,3-dimethanamine, reaction products with phenol and formaldehyde	57214-10-5	No data available	No data available	No data available
Synthetic amorphous, pyrogenic silica	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data available
2-Piperazin-1-yiethylamine	140-31-8	2097 mg/kg	866 mg/kg	No data
Hydroxybenzene	108-95-2	317 mg/kg	630 mg/kg (solid)	900 mg/m3; 8h (solid)
Polymer of epichlorohydrin / bisphenol A and diethylenetriamine	31326-29-1	1620 mg/kg	No data available	No data available
Alkyletheramine	Trade Secret	No data available	No data available	No data available
Alkylphenol	Trade Secret	No data available	No data available	No data available
Benzene-1,3-dimethanamine	1477-55-0	980 mg/kg	2000 mg/kg	1.34 mg/l 4h dust/mist
Diethylenetriamine	111-40-0	1080 mg/kg	1090 mg/kg	0.07-0.3 mg/l 4h mist/aerosol

ACUTE TOXICITY: No specific toxicity data exists for this mixture. Classification is based on acute toxicity estimation methods using ingredient data.

Oral: Category 4. Harmful if swallowed .

Dermal: Not classified. Based on available data this product does not meet classification criteria. However, product contains materials that are readily absorbed through the skin. Absorption of phenolic solutions through the skin may be very rapid and can cause damage to the kidneys, liver, pancreas, spleen, and cause edema of the lungs.

Inhalation:..... Category 4. Harmful if inhaled. Can cause respiratory irritation, shortness of breath or cough. May give off gas, vapor or mist that is very irritating or corrosive to the respiratory system.

SKIN CORROSION / IRRITATION:..... Category 1B. Causes severe skin burns.

SERIOUS EYE DAMAGE / IRRITATION:..... Category 1. Causes serious eye damage. May cause blurred vision. May cause corneal damage resulting in vision impairment or even blindness.

RESPIRATORY SENSITIZATION:..... Category 1. A component in this product is reported to cause allergy, asthma symptoms or breathing difficulties if inhaled. Serious effects may be delayed following exposure.

SKIN SENSITIZATION:..... Category 1. May cause allergic skin reaction.

REPRODUCTIVE TOXICITY:..... Category 2. This product contains a substance that is suspected of damaging fertility of the unborn child.

MUTAGENICITY:..... Category 2. This product contains a substance (phenol, CAS# 108-95-2) that is suspected of causing genetic defects.

CARCINOGENICITY:..... Not classified. Based on available data this product does not meet classification criteria.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):..... Category 3. This product contains a substance that may cause respiratory if inhaled.

SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure): STOT – Category 2. Product contains materials that are readily absorbed through the skin. Absorption of phenolic solutions through the skin may be very rapid and can cause damage to the kidneys, liver, pancreas, spleen, and cause edema of the lungs.

ASPIRATION HAZARD: Not classified. Based on available data this product does not meet classification criteria.

OTHER HEALTH HAZARD INFORMATION:..... This product contains a component (diethylenetriamine) that is highly toxic by inhalation when aerosolized due to spraying or when a mist is formed due to heating. It is advised that exposure not occur to product that is sprayed or heated. While this product does not meet the classification for a respiratory sensitizer, components of this product can cause aggravation of existing respiratory conditions, such as asthma.

12. ECOLOGICAL INFORMATION

ACUTE AQUATIC TOXICITY:..... Aquatic Acute Category 2. Calculated Estimate. No specific test data available for the mixture. Toxic to aquatic life. Avoid release to the environment.

CHRONIC AQUATIC TOXICITY: Aquatic Chronic Category 2. Calculated Estimate. No specific test data available for the mixture. Toxic to aquatic life with long lasting effects. Avoid release to the environment.

PERSISTENCE AND BIODEGRADABILITY: No specific test data available for the mixture.

MOBILITY IN SOIL: No specific test data available for the mixture.

ADDITIONAL ECOTOXICITY INFORMATION:..... In the liquid, uncured state, this product may be harmful to aquatic life with long lasting effects. Prevent release to the environment, sewers and natural waters.

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Ingredient	CAS#	Ecotoxicity Classification Information
Triethylenetetramine, reaction products with phenol and formaldehyde	32610-77-8	Aquatic Chronic Cat. 3
Benzyl alcohol	100-51-6	No data available
Mercaptan-terminated polymer (Non-hazardous)	Not available	No data available
Triethylenetetramine	112-24-3	Aquatic Chronic Cat. 3
Alicyclic aliphatic polyamine	Trade Secret	No data available
Benzene-1,3-dimethanamine, reaction products with phenol and formaldehyde	57214-10-5	Acute Aquatic Cat. 1; Chronic Aquatic Cat. 1
Synthetic amorphous, pyrogenic silica	112945-52-5	No data available
2-Piperazin-1-ylethylamine	140-31-8	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Hydroxybenzene	108-95-2	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 2
Polymer of epichlorohydrin / bisphenol A and diethylenetriamine	31326-29-1	No data available
Alkyletheramine	Trade Secret	No data available
Alkylphenol	Trade Secret	Acute Aquatic Cat. 2; Chronic Aquatic Cat. 2
Benzene-1,3-dimethanamine	1477-55-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Diethylenetriamine	111-40-0	No data available

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:..... Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods.

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

US DOT

UN NUMBER:..... UN 3259
 SHIPPING NAME:..... Polyamines, solid, corrosive, n.o.s.
 TECHNICAL SHIPPING NAME:..... Triethylenetetramine
 HAZARD CLASS:..... Class 8
 PACKING GROUP:..... PG III
 MARINE POLLUTANT:..... No

CANADA TDG

UN NUMBER:..... UN 3259
 SHIPPING NAME:..... Polyamines, solid, corrosive, n.o.s.
 TECHNICAL SHIPPING NAME:..... Triethylenetetramine
 HAZARD CLASS:..... Class 8
 PACKING GROUP:..... PG III
 MARINE POLLUTANT:..... No

IMDG

UN NUMBER:..... UN 3259
 SHIPPING NAME:..... Polyamines, solid, corrosive, n.o.s.
 TECHNICAL SHIPPING NAME:..... Triethylenetetramine
 HAZARD CLASS:..... Class 8
 PACKING GROUP:..... PG III
 EmS Number:..... F-A, S-B
 MARINE POLLUTANT..... Yes

ICAO/IATA

UN NUMBER:..... UN 3259
 SHIPPING NAME:..... Polyamines, solid, corrosive, n.o.s.
 TECHNICAL SHIPPING NAME:..... Triethylenetetramine
 HAZARD CLASS:..... Class 8
 PACKING GROUP:..... PG III
 MARINE POLLUTANT:..... Yes

15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant.
Europe	EINECS or ELINCS	All ingredients are listed or otherwise compliant. No other data available.
Canada	CEPA (DSL/NDSL)	Components of this product are listed on NDSL only.
Australia	AICS	Components of this product are not listed.

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Japan	ENCS	Components of this product are not listed.
South Korea	KECI	Components of this product are not listed.
China	IECSC	All ingredients are listed or otherwise compliant.
Philippines	PICCS	Components of this product are not listed.

US EPA TSCA Requirements:..... No data available.

Canada WHMIS Confidential Business Information (CBI):..... The HMIRA number issued for this CBI claim is #11231. The date of filing is 2017-04-26.

US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)..... Phenol = 500/1000 (lbs.). TPQ = 500 lbs. if phenol is in powder form and has a particle size of less than 100 microns or is handled in solution or molten form, or meets the criteria for a NFPA reactivity rating of 2, 3, or 4.

Subject to Section 304 (RQ)..... Phenol RQ = 1000 lbs.

Subject to Section 311 or 312 Immediate, Delayed.

Subject to Section 313 This product contains hydroxybenzene (phenol) and is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

US STATE REGULATORY INFORMATION:

The following chemicals may be specifically regulated by individual states. For details on state regulatory requirements you should contact the appropriate state agency.

COMPONENT NAME

/CAS NUMBER

CONCENTRATION

STATE CODE

Benzene-1,3-dimethanamine
1477-55-0

MA, PA, NJ

Hydroxybenzene
108-95-2

PA, MA, NJ, IL, RI

Diethylenetriamine
111-40-0

PA

Triethylenetetramine
112-14-3

PA, MA,

Amorphous silica
7631-86-9 or 112945-52-5

PA, NJ, MA

2-Piperazin-1-yiethylamine
140-31-8

MA, PA, NJ

¹: These substances are known to the state of California to cause cancer or reproductive harm, or both.

16. OTHER INFORMATION

REASON FOR ISSUE:..... Compliant to the requirements of the US OSHA 1910.1200 HazCom 2012 standard.

PREPARED BY:..... G. House

APPROVED BY:..... G. House

TITLE:..... Health, Safety & Environmental Manager

APPROVAL DATE:..... May 12, 2017

SUPERSEDES DATE:..... September 14, 2016

SDS VERSION:..... ADV-273-NC-2017a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	3
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:
0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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