

SAFETY DATA SHEET



Excelsior EN-610 – Part A Excelsior Epoxy Nose Filler Adhesive

Version 1.0 Revision Date: 8/23/2016 MSDS Number: EN-610 – Part A Date of last issue: -
Date of first issue: 03/04/2016

SECTION 1. IDENTIFICATION

Product name : Excelsior EN-610 - Part A
Product Description : Epoxy Nose Filler Adhesive
Supplier : RHC
Address : 1602 N. Union St.
Fostoria, OH 44830
Telephone : (844) 393 - 4044
Fax : (419) 436 - 2482
Emergency Telephone Number : CHEMTREC: 1 (800) 424-9300
CANUTEC: (613) 996 - 6666

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification : H315 – Skin Irrit. 2
H319 – Eye Irrit. 2A
H317 – Skin Sens. 1
H411 – Aquatic Chronic 2

See section 16 for full text of H-Phrases

GHS Label Elements

Hazard Pictograms :



Signal Word : Danger

Hazard Statements : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements : P261 - Avoid breathing vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water

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for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Hazards : Exposure may aggravate those with pre-existing eye, skin or respiratory conditions.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Classification : Mixtures

Description : Adhesive

Hazardous Components

CAS#	Chemical Name	Percentage
25068-38-6	Bisphenol A-epichlorohydrin polymer	10 - 30
15625-89-5	Trimethylolpropane triacrylate	10 - 30
14808-60-7	Quartz*	0.1 - 10

**This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.*

SECTION 4. FIRST AID MEASURES

First Aid Measures

- General** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
- Inhalation** : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
- Skin Contact** : In case of skin contact, remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.
- Eye Contact** : In case of eye contact, rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and effects, Both Acute and Delayed

- General** : Causes severe skin burns and eye damage. May cause an allergic reaction in sensitive individuals.

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- Inhalation** : May cause respiratory irritation.
- Skin Contact** : Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
- Eye Contact** : Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
- Ingestion** : Not available.
- Chronic Symptoms** : None expected.

Indications of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical attention (show product label where possible).

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media** : Use extinguishing media appropriate for area.
- Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.

Specific Hazards Arising From Substance or Mixture

- Fire Hazard** : Potentially violent decomposition can occur above 662° F (350 °C).
- Explosion Hazard** : Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.
- Reactivity** : Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

Advice for Firefighting

- Precautionary Measures While Firefighting** : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes may be present.
- Specific Firefighting Instructions** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray or fog to cool unopened containers. Do not allow run-off from firefighting to enter sewage systems or water course. Fire residues and contaminated fire

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- extinguishing water must be disposed of in accordance with local regulations.
- Specific Protection Equipment for Firefighters** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Hazardous Combustion Products** : Under fire conditions this material may produce hazardous carbon dioxide (CO₂), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.
- Other Information** : Refer to Section 9 for flammability properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment & Emergency Procedures** : Avoid all contact with skin, eyes or clothing. Do not breathe vapor, mist or spray. Use only outdoors or in a well-ventilated area.
- Instructions for Non-Emergency Personnel** : Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.
- Instructions for Emergency Personnel** : Equip cleanup crew with proper protection. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area and call for assistance of trained personnel as soon as conditions permit.
- Environmental Precautions** : Do not allow product to reach sewage systems or water course. Inform respective authorities in case of seepage into sewage or water course.
- Methods & Materials for Containment and Cleaning Up** : Contain any spills with dikes or inert absorbent material (e.g. sand, diatomite, universal binder) to prevent migration into sewage systems and water course. Do not absorb with combustible materials, such as saw dust or cellulosic material. Clean up spills immediately and dispose of contaminated material according to section 13. Clean contaminated floors and objects thoroughly while observing environmental regulations. Inform respective authorities in case of seepage into sewage or water course. Use only non-sparking tools.
- Reference to Other Sections** : See Section 8 for information on personal protection. See section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

- Additional Hazards When Processed** : Hazardous polymerization may occur if exposed to high temperature. Product to be handled in a closed system and under strictly controlled conditions.

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Hygiene Measures : Handle in accordance with industrial hygiene best practices and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures : Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Comply with applicable regulations.

Storage Conditions : Store in a dry, cool and well-ventilated area. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials : Strong acids, strong bases, strong oxidizers. Nitrogen containing compounds, ammonium compounds.

Specific End Use(s) : No use specified.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with Workplace Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m ³)	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate)
British Columbia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable)
Manitoba	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
New Brunswick	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Nova Scotia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Nunavut	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable mass)
Northwest Territories	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable mass)
Ontario	OEL TWA (mg/m ³)	0.10 mg/m ³ (designated substances regulation-respirable)

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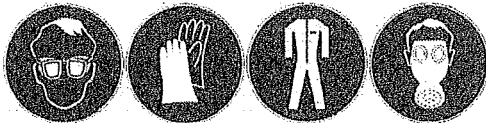
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Prince Edward Island	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Québec	VEMP (mg/m ³)	0.1 mg/m ³ (respirable dust)
Saskatchewan	OEL TWA (mg/m ³)	0.05 mg/m ³ (respirable fraction)
Yukon	OEL TWA (mg/m ³)	300 particle/mL

Exposure Controls

- Engineering Controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure, but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.
- Environmental Exposure Controls** : Do not allow product to be released into the environment.
- Consumer Exposure Controls** : Do not eat, drink or smoke during use.

Personal Protective Equipment



- General:** : Wear protective goggles, gloves and protective clothing. In case of insufficient ventilation, wear respiratory protection.
- Material for Protective Clothing** : Chemically resistant materials and fabrics.
- Respiratory Protection** : If exposure limits may be exceeded or irritation is experienced, use a NIOSH-approved respirator or self-contained breathing apparatus.
- Hand Protection** : Wear chemically resistant protective gloves.
- Eye Protection** : Chemical goggles or safety glasses.
- Skin & Body Protection** : Wear suitable protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance : Paste – Viscous Liquid

Color : Beige

Odor : No data available

Odor Threshold : No data available

pH : No data available

Evaporation Point : No data available

Melting Point / Range : No data available

Freezing Point : 32° F (0° C)

Boiling Point / Range : >392° F (200° C)

Flash Point : >200° F (93° C) Setaflash Method

Flammability : No data available

Auto-Ignition Temperature : No data available

Decomposition Temperature : No data available

Specific Gravity : 1.4

Water Solubility : No data available

Partition Coefficient (Noctanol/Water) : No data available

Viscosity : ~72,000 CPS

Explosion Data – Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact

Explosion Data – Static Discharge : Not expected to present an explosion hazard due to static discharge

VOC Content : < 12 g/l (<0.1 lbs/gal)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Hazardous reactions are unlikely to occur under normal circumstances.

Chemical Stability : Stable under recommended handling and storage conditions (see section 7)

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|---|--|
| Possibility of Hazardous Reactions | : Hazardous polymerization can occur in contact with certain incompatible materials. |
| Conditions to Avoid | : Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials. |
| Incompatible Materials | : Strong acids. Strong bases. Strong oxidizers. Amines. Fluorine. Ammonium salts. |
| Hazardous Decomposition Products | : Under fire conditions this material may produce hazardous carbon dioxide (CO ₂), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke. |

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Effects (Product)

- | | |
|---|--|
| Acute Toxicity | : Not available |
| Skin Corrosion / Irritation | : Causes skin irritation. |
| Serious Eye Damage / Irritation | : Causes serious eye irritation. |
| Respiratory or Skin Sensitization: | : May cause an allergic skin reaction. |
| Germ Cell Mutagenicity | : Not classified |
| Teratogenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive Toxicity | : Suspected of damaging fertility or the unborn child (oral). |
| Aspiration Hazard | : Not classified |
| Specific Target Organ Toxicity (Single or Repeated Exposure) | : Not classified |
| Symptoms / Injuries After Inhalation | : May cause respiratory irritation |
| Symptoms / Injuries After Skin Contact | : Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. |
| Symptoms / Injuries After Skin Contact | : Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. |

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Symptoms / Injuries After Skin Contact : Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms : Suspected of damaging fertility or the unborn child (oral).

Toxicological Effects (Ingredients)

Acute toxicity :

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg

Trimethylolpropane triacrylate (15625-89-5)	
LD50 Dermal Rabbit	5000 mg/kg

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecology - General : Harmful to aquatic life with long lasting effects.

Ecotoxicity :

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna

Persistence & Degradability : Not available

Bioaccumulative Potential : Not available

Mobility in Soil : Not available

Other Adverse Effects : None known

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Excelsior EN-610 – Part A
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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Sewage Disposal Recommendations** : This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Do not empty into drains; dispose of this material and its container in a safe way.
- Waste Disposal Recommendations** : Dispose of waste material in accordance with international, national, federal, state/provincial and local regulations.
- Ecology – Waste Materials** : Avoid release to the environment.

SECTION 14. TRANSPORT INFORMATION

In Accordance with DOT : Not regulated.

In Accordance with IMDG

- Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bisphenol A-(epichlorhydrin); epoxy resin)
- Hazard Class** : 9
- Identification Number** : UN3082
- Label Codes** : 9
- Packing Group** : III
- EMS-No. (Fire)** : F-A
- EMS-No. (Spillage)** : S-F
- Marine Pollutant** : Marine Pollutant



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Excelsior EN-610 – Part A
Excelsior Epoxy Nose Filler Adhesive

Version 1.0 Revision Date: 8/23/2016 MSDS Number: EN-610 – Part A Date of last issue: -
Date of first issue: 03/04/2016

In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorohydrin); epoxy resin)
Packing Group : III
Hazard Class
Identification Number : UN3082
Label Codes : 9
ERG Code (IATA) : 9L



In Accordance with TDG : Not regulated.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

SARA 311/312 : Immediate (acute) health hazard
Hazard Classes (Product) : Delayed (chronic) health hazard

Bisphenol A-epichlorohydrin polymer (25068-38-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Trimethylolpropane triacrylate (15625-89-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Quartz (14808-60-7)	WARNING: This product contains chemicals known to the State of California to cause cancer.
U.S. - California - Proposition 65 - Carcinogens List	
Quartz (14808-60-7)	
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	

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Excelsior EN-610 – Part A
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Canadian Regulations

WHMIS Classification



: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Class E - Corrosive Material

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Quartz (14808-60-7)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Trimethylolpropane triacrylate (15625-89-5)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this SDS contains all of the information required by CPR.

SECTION 16. OTHER INFORMATION

Revision Date : 8.23.2016

Other Information : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases :

GHS Code	GHS Phrase
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Excelsior EN-610 – Part B Excelsior Epoxy Nose Filler Adhesive

Version 1.0 Revision Date: 8/22/2016 MSDS Number: EN-610 – Part B Date of last issue: -
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SECTION 1. IDENTIFICATION

Product name : Excelsior EN-610 - Part B

Product Description : Epoxy Nose Filler Adhesive

Supplier : RHC

Address : 1602 N. Union St.
Fostoria, OH 44830

Telephone : (844) 393 - 4044

Fax : (419) 436 - 2482

Emergency Telephone Number : CHEMTREC: 1 (800) 424-9300
CANUTEC: (613) 996 - 6666

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification : H302 – Acute Tox. 4 (Oral)
H314 – Skin Corr. 1A
H318 – Eye Dam. 1
H317 – Skin Sens. 1
H361 – Repr. 2
H373 – STOT RE 2
H400 – Aquatic Acute 1
H410 – Aquatic Chronic 1

See section 16 for full text of H-Phrases

GHS Label Elements

Hazard Pictograms :



Signal Word : Danger

Hazard Statements : H302 – Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H361 – Suspected of damaging fertility or the unborn child.
H373 – May cause damage to organs through prolonged or repeated exposure.
H400 – Very toxic to aquatic life.

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H410 – Very toxic to aquatic life with long lasting effects.

Precautionary Statements : P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331+P312 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.
P303+P361+P353 - IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position 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.

Other Hazards : May be corrosive to respiratory tract.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Classification : Mixtures

Description : Adhesive

Hazardous Components

CAS#	Chemical Name	Percentage
84852-15-3	Nonyl Phenol	10 - 30
1761-71-3	Cyclohexanamine, 4,4'-methylenebis-	3 - 7
112-57-2	Tetraethylenepentamine	1 - 5
14808-60-7	Quartz*	0.1 – 1.0

**This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.*

SECTION 4. FIRST AID MEASURES

First Aid Measures

General : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if

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- breathing difficulty persists.
- Skin Contact** : In case of skin contact, immediately flush skin with plenty of water for at least 60 minutes. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention.
- Eye Contact** : In case of eye contact, rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and effects, Both Acute and Delayed

- General** : Causes severe skin burns and eye damage. May be harmful if swallowed and enters airways. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure
- Inhalation** : May cause respiratory irritation.
- Skin Contact** : Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
- Eye Contact** : Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.
- Ingestion** : May be fatal if swallowed and enters airways.
- Chronic Symptoms** : Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Indications of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical attention (show product label where possible).

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SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media** : Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, dry chemical, or sand.
- Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.

Specific Hazards Arising From Substance or Mixture

- Fire Hazard** : Potentially violent decomposition can occur above 662° F (350 °C).
- Explosion Hazard** : Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.
- Reactivity** : Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

Advice for Firefighting

- Precautionary Measures While Firefighting** : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes may be present.
- Specific Firefighting Instructions** : Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from firefighting to enter sewage systems or water course. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Specific Protection Equipment for Firefighters** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Hazardous Combustion Products** : Under fire conditions this material may produce hazardous carbon dioxide (CO₂), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.
- Other Information** : Refer to Section 9 for flammability properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment & Emergency Procedures** : Avoid all contact with skin, eyes or clothing. Do not breathe vapor, mist or spray. Use only outdoors or in a well-ventilated area. Do not allow product to spread into the environment.

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- Instructions for Non-Emergency Personnel** : Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.
- Instructions for Emergency Personnel** : Equip cleanup crew with proper protection. Stop leaks if safe to do so. Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area and call for assistance of trained personnel as soon as conditions permit.
- Environmental Precautions** : Do not allow product to reach sewage systems or water course. Inform respective authorities in case of seepage into sewage or water course.
- Methods & Materials for Containment and Cleaning Up** : Contain any spills with dikes or inert absorbent material (e.g. sand, diatomite, universal binder, etc.) to prevent migration into sewage systems and water course. Do not absorb with combustible material such as saw dust or cellulosic material. Use only non-sparking tools. Transfer spilled material to a suitable container for disposal. Clean up spills immediately and dispose of contaminated material according to section 13. Clean contaminated floors and objects thoroughly while observing environmental regulations. Inform respective authorities in case of seepage into sewage or water course.
- Reference to Other Sections** : See Section 8 for information on personal protection. See section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

- Additional Hazards When Processed** : The substance will polymerize due to heat, contact with incompatible materials and under the influence of light. Heating may cause violent combustion or explosion, producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. Product to be handled in a closed system and under strictly controlled conditions.
- Hygiene Measures** : Handle in accordance with industrial hygiene best practices and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

- Technical Measures** : Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Comply with applicable regulations.

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- Storage Conditions** : Store in a dry, cool and well-ventilated area. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible Materials** : Strong acids, strong bases, strong oxidizers. Nitrogen containing compounds, ammonium salts.
- Specific End Use(s)** : No use specified.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m ³)	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate)
British Columbia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable)
Manitoba	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
New Brunswick	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Nova Scotia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Nunavut	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable mass)
Northwest Territories	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable mass)
Ontario	OEL TWA (mg/m ³)	0.10 mg/m ³ (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
Québec	VEMP (mg/m ³)	0.1 mg/m ³ (respirable dust)
Saskatchewan	OEL TWA (mg/m ³)	0.05 mg/m ³ (respirable fraction)
Yukon	OEL TWA (mg/m ³)	300 particle/mL

Exposure Controls

- Engineering Controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be

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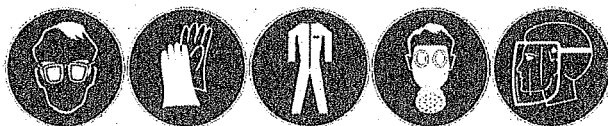
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released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

Environmental Exposure Controls : Do not allow product to be released into the environment.

Consumer Exposure Controls : Do not eat, drink or smoke during use.

Personal Protective Equipment



General: : Wear protective goggles, gloves and protective clothing. In case of insufficient ventilation, wear respiratory protection.

Materials for Protective Clothing : Chemically resistant materials and fabrics.

Respiratory Protection : If exposure limits may be exceeded or irritation is experienced, use a NIOSH-approved respirator or self-contained breathing apparatus.

Hand Protection : Wear chemically resistant protective gloves.

Eye Protection : Chemical goggles or safety glasses.

Skin & Body Protection : Wear suitable chemically resistant protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Thick Paste
Physical State	: Liquid – Paste
Color	: Dark Grey
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Point	: No data available
Melting Point / Range	: No data available

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Freezing Point	: 32° F (0° C)
Boiling Point / Range	: >390° F (>198.89° C)
Flash Point	: >200° F (93.33° C)
Flammability	: No data available
Auto-Ignition Temperature	: No data available
Decomposition Temperature	: No data available
Specific Gravity	: 1.3
Water Solubility	: No data available
Partition Coefficient (Noctanol/Water)	: No data available
Viscosity	: ~56,000 CPS
Explosion Data – Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Static Discharge	: Not expected to present an explosion hazard due to static discharge
VOC Content	: <12 g/l (<0.1 lbs/gal)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.
Chemical Stability	: Stable under recommended handling and storage conditions (see section 7)
Possibility of Hazardous Reactions	: Hazardous polymerization will not occur.
Conditions to Avoid	: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.
Incompatible Materials	: Strong acids. Strong bases. Strong oxidizers. Amines. Fluorine. Ammonium salts.
Hazardous Decomposition Products	: Under fire conditions this material may produce hazardous carbon dioxide (CO ₂), carbon monoxide (CO), nitrogen oxides, various low molecular weight hydrocarbons, and smoke.

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SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Effects (Product)

Acute Oral toxicity : Harmful if swallowed.

ATE US (oral)	1,921.59 mg/kg body weight
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Skin Corrosion / Irritation : Causes severe skin burns and eye damage.

Serious Eye Damage / Irritation : Causes serious eye damage.

Respiratory or Skin Sensitization: : May cause an allergic skin reaction.

Germ Cell Mutagenicity : Not classified

Teratogenicity : Not classified

Carcinogenicity : Not classified

Reproductive Toxicity : Suspected of damaging fertility or the unborn child.

Aspiration Hazard : Not classified

Specific Target Organ Toxicity (Single Exposure) : Not classified

Specific Target Organ Toxicity (Repeated Exposure) : May cause damage to organs through prolonged or repeated exposure.

Symptoms / Injuries After Inhalation : May cause respiratory irritation.

Symptoms / Injuries After Skin Contact : Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms / Injuries After Eye Contact : Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms / Injuries After Ingestion : May be fatal if swallowed and enters airways.

Chronic Symptoms : Suspected of damaging fertility or the unborn child.

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Toxicological Effects (Ingredients)**Acute toxicity**

Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
LD50 Oral Rat	1000 mg/kg
Tetraethylenepentamine (112-57-2)	
LD50 Oral Rat	2100 mg/kg
LD50 Dermal Rabbit	660 µl/kg
Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

SECTION 12. ECOLOGICAL INFORMATION**Toxicity**

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

Ecotoxicity :

Tetraethylenepentamine (112-57-2)	
LC50 Fish 1	420 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 Daphnia 1	24.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence & Degradability : Not available

Bioaccumulative Potential :

Tetraethylenepentamine (112-57-2)	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	< 1
Phenol, 4-nonyl-, branched (84852-15-3)	
BCF Fish 1	271

Mobility in Soil : Not available

Other Adverse Effects : None known

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Sewage Disposal Recommendations** : This material is hazardous to the aquatic environment. Keep out of sewers and waterways.
- Waste Disposal Recommendations** : Dispose of waste material in accordance with international, national, federal, state/provincial and local regulations.
- Ecology – Waste Materials** : Avoid release to the environment.

SECTION 14. TRANSPORT INFORMATION

In Accordance with DOT

- Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)
- Hazard Class** : 8
- Identification Number** : UN1760
- Label Codes** : 8
- Packing Group** : II
- ERG Number** : 171

DOT Exemptions

- Exemption - Limited Quantities** : Packages having a volumetric capacity of no more than 1.0L/0.3 gallons and meeting the requirements of 49 CFR 173.154(b) are exempt from many of the DOT requirements for this classification. Each package must display the following limited quantity label:



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In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)

Hazard Class : 8

Identification Number : UN1760

Label Codes : 8

Packing Group : II

EMS-No. (Fire) : F-A

EMS-No. (Spillage) : S-B

Marine Pollutant : Marine Pollutant



In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)

Packing Group : II

Hazard Class : 8

Identification Number : UN1760

Label Codes : 8

ERG Code (IATA) : 8L



In Accordance with TDG

Proper Shipping Name : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)

Packing Group : II

Hazard Class : 8

Identification Number : UN1760

Label Codes : 8

Marine Pollutant : Marine Pollutant

Exemption - Limited Quantities : Packages having a volumetric capacity of no more than 1.0L and meeting the requirements of Transportation of Dangerous Goods Part 1 Section 1.17 Limited Quantities are exempt from



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many of the TDG requirements for this classification. Each package must display the following limited quantity label.



SECTION 15. REGULATORY INFORMATION

US Federal Regulations

SARA 311/312 : Immediate (acute) health hazard
Hazard Classes (Product) Delayed (chronic) health hazard

Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Phenol, 4-nonyl-, branched (84852-15-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
SARA Section 313 - Emission Reporting	1.0 %
Tetraethylenepentamine (112-57-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

US State Regulations

Quartz (14808-60-7)	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Quartz (14808-60-7)	
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	
Tetraethylenepentamine (112-57-2)	
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	

Canadian Regulation

WHMIS Classification : Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Class E - Corrosive Material



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Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Phenol, 4-nonyl-, branched (84852-15-3)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Quartz (14808-60-7)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Tetraethylenepentamine (112-57-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this SDS contains all of the information required by CPR.

SECTION 16. OTHER INFORMATION

Revision Date : 8.22.2016

Other Information : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases :

GHS Code	GHS Phrase
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H340	May cause genetic defects
H410	Toxic to aquatic life with long lasting effects

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.