

Red Head® C6+, Part B

Product Code(s): C6P-15; C6P-30

SDS Revision Date (mm/dd/yyyy): 09/07/2017

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**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Red Head® C6+, Part B****Product Code(s)** : C6P-15; C6P-30**Recommended use of the chemical and restrictions on use**: Hardener component of a two part epoxy adhesive. For use in a wide range of threaded bar or rebar applications.  
No restrictions on use known.**Chemical family** : Mixture of: Inorganic filler; Phenol; Amines; Carboxylic acid**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:****ITW Commercial Construction North America**700 High Grove Road  
Glendale Heights, IL, USA  
60139**Information Telephone #** : (630) 825-7900**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Pasty liquid. Dark grey. Slight amine odor.

*Most important hazards:*

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Corrosive to the respiratory tract. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Toxic to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification:

Skin corrosion/irritation - Category 2

Eye damage/irritation - Category 1

Skin sensitization - Category 1

Hazards Not Otherwise Classified (HNOC) / Health Hazards Not Otherwise Classified - Category 1

**Label elements***Hazard pictograms***Signal Word**

DANGER!

**Hazard statement(s)**

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

Corrosive to the respiratory tract.

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**SAFETY DATA SHEET****Precautionary statement(s)**

Do not breathe dust, fume or mist. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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.

Immediately call a POISON CENTER or doctor/physician.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

*Other hazards which do not result in classification:*

Toxic fumes may be released during a fire. Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract.

*Environmental precautions:*

Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See Section 12 for more environmental information.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

<u>Chemical name</u>	<u>Synonyms</u>	<u>CAS #</u>	<u>Concentration</u>
Crystalline silica, quartz	Quartz silica Crystallized silicon dioxide	14808-60-7	30.0 - 40.0
Phenol, styrenated	2,4-divinylphenol 2,4-diethenylphenol	61788-44-1	25.0 - 40.0
1,3-Cyclohexanedimethanamine	1,3-Bis(aminomethyl)cyclohexane	2579-20-6	10.0 - 20.0
Ceramic materials and wares, chemicals	Calcined clay	66402-68-4	7.0 - 13.0
Glass, oxide, chemicals	Not available.	65997-17-3	7.0 - 13.0
Aminoethylpiperazine	2-piperazin-1-ylethylamine	140-31-8	3.0 - 7.0
4,4'-Methylenebis(cyclohexylamine)	Cyclohexanamine	1761-71-3	3.0 - 7.0
Salicylic acid	2-Carboxyphenol 2-Hydroxybenzenecarboxylic acid	69-72-7	1.0 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

**SECTION 4. FIRST-AID MEASURES****Description of first aid measures**

- Ingestion* : If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.
- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Immediately call a POISON CENTER or doctor/physician.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 20 minutes. Protect unharmed eye. Immediately call a POISON CENTER or doctor/physician.

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### Most important symptoms and effects, both acute and delayed

- : Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage.
- Corrosive to the respiratory tract. May produce irritation, burning, or destruction of tissues in the respiratory tract, characterized by coughing, choking, pain, or shortness of breath.
- May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
- May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding.

### Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Causes serious eye damage. Provide general supportive measures and treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam; Water fog

#### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

### Special hazards arising from the substance or mixture

- : Not considered flammable. However, may burn if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes may be released during a fire.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Not classified as flammable.

### Hazardous combustion products

- : Carbon oxides; Nitrogen oxides (NO<sub>x</sub>); Ammonia; hydrogen cyanide; Nitriles; Isocyanates; Nitrosamines; Other unidentified organic compounds.

### Special protective equipment and precautions for firefighters

#### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

### Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.



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### Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

### Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
 US CERCLA Reportable quantity (RQ): None known.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.  
 Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Do not breathe dust, fume or mist. Avoid contact with skin, eyes and clothing. Processing (such as welding, grinding, and machining) may result in the formation of fumes, dust, and/or particulate. Avoid and control operations which create high vapor or dust concentrations. Keep away from extreme heat and direct flame. Keep away from incompatibles. Protect from moisture. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Contaminated work clothing must not be allowed out of the workplace.

### Conditions for safe storage

- : Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

### Incompatible materials

- : Strong oxidizing agents; Acids; Bases; Acrylates; Aldehydes; Halogenated compounds

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Crystalline silica, quartz	0.025 mg/m <sup>3</sup> (respirable)	N/Av	0.1 mg/m <sup>3</sup> (respirable) (final rule limit)	N/Av
Phenol, styrenated	N/Av	N/Av	N/Av	N/Av
1,3-Cyclohexanedimethanamine	N/Av	N/Av	N/Av	N/Av
Ceramic materials and wares, chemicals	N/Av	N/Av	N/Av	N/Av
Glass, oxide, chemicals	N/Av	N/Av	N/Av	N/Av
Aminoethylpiperazine	N/Av	N/Av	N/Av	N/Av
4,4'-Methylenebis(cyclohexylamine)	N/Av	N/Av	N/Av	N/Av
Salicylic acid	N/Av	N/Av	N/Av	N/Av

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### Exposure controls

#### Ventilation and engineering measures

- : Use with adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

#### Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

#### Skin protection

- : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear sufficient clothing to prevent skin contact.

#### Eye / face protection

- : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

#### Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

#### General hygiene considerations

- : Do not breathe dust, fume or mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing must not be allowed out of the workplace.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Pasty liquid. Dark grey

**Odor** : Slight amine odor.

**Odor threshold** : N/Av

**pH** : N/Av

**Melting/Freezing point** : N/Av

#### Initial boiling point and boiling range

: > 220°C (428°F)

**Flash point** : > 100°C (212°F)

**Flashpoint (Method)** : N/Av

**Evaporation rate (BuAe = 1)** : N/Av

**Flammability (solid, gas)** : Not applicable.

**Lower flammable limit (% by vol.)**

: N/Av

**Upper flammable limit (% by vol.)**

: N/Av

**Oxidizing properties** : None known.

**Explosive properties** : Not explosive

**Vapor pressure** : N/Av

**Vapor density** : N/Av

**Relative density** : 1.3

**Solubility in water** : N/Av

**Other solubility(ies)** : N/Av

**Partition coefficient: n-octanol/water**

: N/Av

**Auto-ignition temperature** : N/Av

**Decomposition temperature** : N/Av

**Viscosity** : N/Av

**Volatiles (% by weight)** : N/Av

**Volatile organic Compounds (VOC's)**

: N/Av

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**Absolute pressure of container**

: N/Ap

**Flame projection length**

: N/Ap

**Other physical/chemical comments**

: No additional information.

**SECTION 10. STABILITY AND REACTIVITY****Reactivity** : Not normally reactive.**Chemical stability** : Stable under normal conditions.**Possibility of hazardous reactions**

: May polymerize when heated or on contact with incompatible materials.

**Conditions to avoid**

: Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials**

: Strong oxidizing agents; Acids; Bases; Acrylates; Aldehydes; Halogenated compounds

**Hazardous decomposition products**

: None known, refer to hazardous combustion products in Section 5.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:****Routes of entry inhalation** : YES**Routes of entry skin & eye** : YES**Routes of entry Ingestion** : YES**Routes of exposure skin absorption**

: NO

**Potential Health Effects:****Signs and symptoms of short-term (acute) exposure***Sign and symptoms Inhalation*

: Corrosive to the respiratory tract. May produce irritation, burning, or destruction of tissues in the respiratory tract, characterized by coughing, choking, pain, or shortness of breath.

*Sign and symptoms ingestion*

: May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding.

*Sign and symptoms skin*

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation. This product was tested using the invitro Corrositex test. The product was found to be a non-corrosive, Category 2 material with a corrosion breakthrough time of &gt; 60 minutes.

*Sign and symptoms eyes*

: Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage.

**Potential Chronic Health Effects**

: Chronic skin contact with low concentrations may cause dermatitis.

**Mutagenicity**

: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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- Carcinogenicity** : Not classifiable as a human carcinogen.  
 Contains: Crystalline silica, quartz; Glass oxide (glass fiber).  
 Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen). However, Crystalline silica is listed as causing cancer only when it's particles are airborne and of a respirable size. Airborne respirable particles are not expected for this product, based on the intended use and form of the product as a whole.  
 The glass oxide (glass fiber) used in the product are considered to be non-respirable, and are therefore not expected to reach deep lung tissues and cause carcinogenic effects.
- Reproductive effects** : This product is not expected to cause reproductive or developmental effects.
- Senitization to material** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification:  
 Skin sensitization - Category 1. May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. No data available to indicate product or components may be respiratory sensitizers.
- Specific target organ effects** : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012), this product is not expected to cause target organ toxicity through single or repeated exposures.
- Medical conditions aggravated by overexposure** : Pre-existing skin, eye, respiratory and central nervous system disorders.
- Toxicological data** : No data is available on the product itself. The calculated ATE values for this mixture are:  
 ATE oral = 2467 mg/kg  
 ATE dermal = 5701 mg/kg
- See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub> (4hr)</u> <u>inh. rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Crystalline silica, quartz	N/Av	N/Av	N/Av
Phenol, styrenated	> 4.92 mg/L (mist) (No mortality)	> 2500 mg/kg (No mortality)	> 5010 mg/kg
1,3-Cyclohexanedimethanamine	N/Av	880 mg/kg	1700 mg/kg
Ceramic materials and wares, chemicals	> 2.3 mg/L (aerosol) (No mortality)	> 2000 mg/kg (No mortality)	> 2500 mg/kg (No mortality)
Glass, oxide, chemicals	N/Av	> 2000 mg/kg (No mortality)	> 5000 mg/kg
Aminoethylpiperazine	> 890 ppm (4.7 mg/L) (mist) (No mortality)	1470 mg/kg	865 mg/kg
4,4'-Methylenebis(cyclohexylamine)	N/Av	350 mg/kg	2110 mg/kg
Salicylic acid	> 1.25 mg/L (dust) (No mortality)	891 mg/kg	> 2000 mg/kg (No mortality)

**Other important toxicological hazards**

- : None known or reported by the manufacturer.

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### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Phenol, styrenated; 1,3-Cyclohexanedimethanamine; Aminoethylpiperazine.

See the following tables for individual ingredient ecotoxicity data.

#### Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.
Phenol, styrenated	61788-44-1	14.8 mg/L (Zebra fish)	N/Av	None.
1,3-Cyclohexanedimethanamine	2579-20-6	130 mg/L (Golden orfe)	N/Av	None.
Ceramic materials and wares, chemicals	66402-68-4	50.6 mg/L (Rainbow trout) (Read-across)	4.7 mg/L/28-day (Fathead minnow) (Read-across)	None.
Glass, oxide, chemicals	65997-17-3	> 1000 mg/L (Zebra fish)	N/Av	None.
Aminoethylpiperazine	140-31-8	2190 mg/L (Fathead minnow)	N/Av	None.
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	67.8 mg/L (unbuffered); > 100 mg/L (buffered) (Golden orfe)	> 1 mg/L (calculated)	None.
Salicylic acid	69-72-7	1370 mg/L (Fathead minnow)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.
Phenol, styrenated	61788-44-1	≥ 1, ≤ 10 mg/L (Daphnia magna)	0.2 mg/L	None.
1,3-Cyclohexanedimethanamine	2579-20-6	33.1 mg/L (Daphnia magna)	N/Av	None.
Ceramic materials and wares, chemicals	66402-68-4	49.1 mg/L (Daphnia magna) (Read-across)	1.89 mg/L/28-day (Read-across)	None.
Glass, oxide, chemicals	65997-17-3	> 1000 mg/L (Daphnia magna)	N/Av	None.
Aminoethylpiperazine	140-31-8	58 mg/L (Daphnia magna)	N/Av	None.
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	6.84 mg/L (unbuffered); 7.07 mg/L (buffered) (Daphnia magna)	4 mg/L (Read-across)	None.
Salicylic acid	69-72-7	870 mg/L (Daphnia magna)	10 mg/L	None.



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Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.
Phenol, styrenated	61788-44-1	3.14 mg/L/72hr (Green algae)	1 mg/L/72hr	None.
1,3-Cyclohexanedimethanamine	2579-20-6	56.7 mg/L/72hr (Green algae)	13.7 mg/L/72hr	None.
Ceramic materials and wares, chemicals	66402-68-4	184.57 mg/L/72hr (Green algae) (Read-across)	48 mg/L/72hr (Read-across)	None.
Glass, oxide, chemicals	65997-17-3	> 1000 mg/L/72hr (Green algae)	≥ 1000 mg/L/72hr	None.
Aminoethylpiperazine	140-31-8	> 1000 mg/L/72hr (Green algae)	N/Av	None.
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	140 - 200 mg/L/72hr (unbuffered); 2164 mg/L/72hr (unbuffered) (Green algae)	N/Av	None.
Salicylic acid	69-72-7	> 100 mg/L/72hr (Green algae)	N/Av	None.

### Persistence and degradability

- : The product itself has not been tested.
- Contains the following chemicals which are considered to be inherently biodegradable: Salicylic acid.
- Contains the following chemicals which are not readily biodegradable: Phenol, styrenated; 1,3-Cyclohexanedimethanamine; Crystalline silica, quartz; Ceramic materials and wares, chemicals; Glass, oxide, chemicals; Aminoethylpiperazine; 4,4'-Methylenebis(cyclohexylamine).

### Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/Water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Phenol, styrenated (CAS 61788-44-1)	> 4	60 - 190 (common carp) (Read-across)
1,3-Cyclohexanedimethanamine (CAS 2579-20-6)	0.78	N/Av
Aminoethylpiperazine (CAS 140-31-8)	- 1.48	< 0.3 to 6.3 (common carp) (Read-across)
4,4'-Methylenebis(cyclohexylamine) (CAS 1761-71-3)	2.03	N/Av
Salicylic acid (CAS 69-72-7)	2.26	3 (estimated)

### Mobility in soil

- : The product itself has not been tested.

### Other Adverse Environmental effects

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Handling for Disposal

- : Refer to protective measures listed in sections 7 and 8.
- This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### Methods of Disposal

- : Dispose in accordance with all applicable federal, state, territory and local regulations.

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**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	None	
<b>49CFR/DOT Additional information</b>	Not regulated unless shipping internationally by sea or air. Refer to IMDG or IATA information for international sea or air shipments, as appropriate.				
ICAO/IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Styrenated phenol)	9	III	 
<b>ICAO/IATA Additional information</b>	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material. The environmentally hazardous substance mark must appear on packagings holding more than 5 litres of the material.				
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Styrenated phenol)	9	III	 
<b>IMDG Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. The environmentally hazardous substance mark must appear on packagings holding more than 5 litres of the material.				

**Special precautions for user** : Appropriate advice on safety must accompany the package. Avoid release to the environment.

**Environmental hazards** : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not applicable.



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### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Crystalline silica, quartz	14808-60-7	Yes	None.	None.	No	N/Ap
Phenol, styrenated	61788-44-1	Yes	None.	None.	No	N/Ap
1,3-Cyclohexanedimethan amine	2579-20-6	Yes	None.	None.	No	N/Ap
Ceramic materials and wares, chemicals	66402-68-4	Yes	None.	None.	No	N/Ap
Glass, oxide, chemicals	65997-17-3	Yes	None.	None.	No	N/Ap
Aminoethylpiperazine	140-31-8	Yes	None.	None.	No	N/Ap
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	Yes	None.	None.	No	N/Ap
Salicylic acid	69-72-7	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Health hazards [Skin irritation; Eye Damage; Skin sensitization; Hazards Not Otherwise Classified (HNOC) / Health Hazards Not Otherwise Classified].

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Crystalline silica, quartz	14808-60-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes
Phenol, styrenated	61788-44-1	No	N/Ap	No	No	No	No	No	No
1,3-Cyclohexanedimethana mine	2579-20-6	No	N/Ap	No	No	No	No	No	No
Ceramic materials and wares, chemicals	66402-68-4	No	N/Ap	No	No	No	No	No	No
Glass, oxide, chemicals	65997-17-3	No	N/Ap	No	No	Yes	No	No	No
Aminoethylpiperazine	140-31-8	No	N/Ap	No	Yes	No	Yes	Yes	No
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	No	N/Ap	No	No	No	No	No	No
Salicylic acid	69-72-7	No	N/Ap	No	No	No	No	No	No

#### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product does not contain any substances listed on the NPRI.

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### International Information:

Components listed below are present on the following International Inventory lists:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECS</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>New Zealand IOC</u>
Crystalline silica, quartz	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125
Phenol, styrenated	61788-44-1	262-975-0	Present	Present	(4)-198	KE-32262	Present	May be used as a single component chemical under an appropriate group standard.
1,3-Cyclohexanedimethan amine	2579-20-6	219-941-5	Present	Present	(3)-2299; (3)-2279	KE-09173	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
Ceramic materials and wares, chemicals	66402-68-4	266-340-9	Present	Present	(1)-189	KE-05377	Present	May be used as a single component chemical under an appropriate group standard.
Glass, oxide, chemicals	65997-17-3	266-046-0	Present	Present	(1)-189	KE-17630	Present	May be used as a single component chemical under an appropriate group standard.
Aminoethylpiperazine	140-31-8	205-411-0	Present	Present	(5)-961	KE-28762	Present	HSR004013
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	217-168-8	Present	Present	(4)-101; (3)-2272	KE-23815	Present	HSR003552
Salicylic acid	69-72-7	200-712-3	Present	Present	(3)-1640	KE-20367	Present	HSR002754

**SAFETY DATA SHEET****SECTION 16. OTHER INFORMATION****Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
ATE: Acute Toxicity Estimate  
CA: California  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
EC50: Effective Concentration 50%  
EINECS: European Inventory of Existing Commercial chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.  
2. International Agency for Research on Cancer Monographs, searched 2017.  
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2017 (Chempendium, HSDB and RTECs).  
4. Material Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists - March 2015 version.  
6. California Proposition 65 List - July 7, 2017 version.  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2017.

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: 09/07/2017

**Revision No.**

: 2

**Revision Information**: SDS sections updated:  
2. HAZARDS IDENTIFICATION;  
4. FIRST AID MEASURES;  
7. HANDLING AND STORAGE;  
11. TOXICOLOGICAL INFORMATION;  
14. TRANSPORT INFORMATION**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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