

## Safety Data Sheet

**Material Name:** PG Component B

**Product #:** 331330  
331331  
331332  
**Component B**

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name:** PG Component B

**Chemical Family:** Epoxy

**Product Use:** Coating

**Restrictions on Use:** For industrial use only

**Manufacturer Information**

Hardcast A Carlisle Company  
900 Hensley Lane  
Wylie, TX 75098  
www.carlislehvac.com

**Phone Numbers:**

Medical Emergency  
CHEMTREC (USA): 800-424-9300

SDS Assistance: 972-442-6545  
Technical Assistance: 888-229-2199  
Customer Service: 888-229-0199

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### Section 2 - HAZARDS IDENTIFICATION

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**Physical hazards**

Not classified

**Health hazards (classification in accordance with paragraph (d) of 29 CFR 1910.1200)**

Skin Corrosion/irritation – Category 2

Serious eye damage/eye irritation – Category 2

Sensitization, respiratory – Category 1

Sensitization, skin – Category 1

Specific target organ toxicity, single exposure – Category 1

Specific target organ toxicity, repeated exposure – Category 2

**Environmental hazards**

Not classified

**OSHA defined hazards**

Not classified

**GHS Label Elements**

**Symbol(s)**



GHS07 Harmful



GHS08 Health Hazard

**Signal Word**

Danger

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### Hazard Statement(s)

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Specific treatment see Section 4 of this SDS. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Causes eye irritation. Causes skin irritation.

### Storage

Store locked up. Store in accordance with local/regional/national regulations.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazard(s) not otherwise classified (HNOC)

None known.

### Supplemental information

Not applicable.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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### Chemical characterization

Mixtures

### Description

Mixture of the substances listed below with nonhazardous additions

| Chemical name                            | CAS number | Percent |
|--|------------|---------|
| BENZYL ALCOHOL                           | 100-51-6   | 0 – 20  |
| TRIETHYLENETETRAMINE                     | 112-24-3   | 1 – 6   |
| 3-AMINOPROPYLTRIETHOXSILANE              | 919-30-2   | 0 – 3   |
| ETHYLENEDIAMINE                          | 107-15-3   | 0 – 1   |
| Other components below reportable levels |            | 59.84   |

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### Section 4 - FIRST AID MEASURES

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#### **Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

#### **Skin contact**

Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

#### **Eye contact**

Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

#### **Ingestion**

Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Most Important Symptoms/Effects, both acute and delayed**

Direct contact with eyes may cause temporary irritation.

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

Treat symptomatically.

#### **General Information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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### Section 5 - FIRE FIGHTING MEASURES

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#### **Extinguishing Media**

##### **Suitable Extinguishing Media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

##### **Unsuitable Extinguishing Media**

Do not use water jet as an extinguisher, as this will spread the fire.

##### **Special Hazards Arising from the Chemical**

During fire, gases hazardous to health may be formed.

##### **Special Protective Equipment and Precautions for Firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

##### **Fire-fighting Equipment/Instructions**

Move containers from fire area if you can do so without risk.

##### **Specific Methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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#### **Personal Precautions, Protective Equipment and Emergency Procedures**

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

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### Methods and Materials for Containment and Cleaning Up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

**Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

### Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

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## Section 7 - HANDLING AND STORAGE

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### Precautions for Safe Handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Occupational Exposure Limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components   | Type | Value                                  | Form |
|--|------|--|------|
| ETHYLENEDIAMINE (CAS 107-15-3)<br><b>US. ACGIH Threshold Limit Values</b>            | PEL  | 25 mg/m <sup>3</sup>                   |      |
| ETHYLENEDIAMINE (CAS 107-15-3)<br><b>US. NIOSH: Pocket Guide to Chemical Hazards</b> | TWA  | 10 ppm                                 |      |
| ETHYLENEDIAMINE (CAS 107-15-3)   | TWA  | 25 mg/m <sup>3</sup><br>10 ppm         |      |
| <b>US. AIHA Workplace Environmental Exposure Level (WEEL) Guides</b>                 |      |  |      |
| BENZYL ALCOHOL (CAS 100-51-6)  | TWA  | 44.2 mg/m <sup>3</sup>                 |      |
| TRIETHYLENETETRAMINE (CAS 112-24-3)  | TWA  | 10 ppm<br>6 mg/m <sup>3</sup><br>1 PPM |      |

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### Biological Limit Values

No biological exposure limits noted for the ingredient(s).

### Appropriate Engineering Controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/Face Protection

Wear safety glasses; chemical goggles (if splashing is possible).

#### Hand Protection

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

#### Other

Wear suitable protective clothing.

### Respiratory Protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

### Thermal Hazards

Wear appropriate thermal protective clothing, when necessary.

### General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|   |                                 |                                     |                                 |
|---|---------------------------------|-------------------------------------|---------------------------------|
| <b>Appearance</b>                                   | Liquid                          | <b>Physical state</b>               | Liquid                          |
| <b>Form</b>   | Liquid                          | <b>Color</b>                        | Golden to Light Amber           |
| <b>Odor</b>   | Ammoniacal. Amine-like          | <b>Odor threshold</b>               | Not available                   |
| <b>pH</b>   | Alkaline                        | <b>Melting point/freezing point</b> | 4.64°F (-15.2°C)<br>estimated   |
| <b>Initial boiling point and boiling range</b>      | 401.54°F (205.3°C)<br>estimated | <b>Flash point</b>                  | > 199.4°F (> 93°C)<br>estimated |
| <b>Evaporation rate</b>                             | Not available                   | <b>Flammability (solid, gas)</b>    | Not available                   |
| <b>Upper/Lower Flammability or Explosive Limits</b> |                                 |                                     |                                 |
| <b>Flammability limit – lower (%)</b>               | 3% estimated                    | <b>Flammability limit upper (%)</b> | 10% estimated                   |
| <b>Explosive limit - lower (%)</b>                  | Not available                   | <b>Explosive limit – upper (%)</b>  | Not available                   |

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|   |               |                                    |                            |
|---|---------------|------------------------------------|----------------------------|
| Vapor Pressure                          | Not available | Vapor Density                      | Not available              |
| Relative Density                        | Not available | Solubility(ies) Solubility (water) | Partial                    |
| Partition coefficient (n-octanol/water) | Not available | Auto-ignition temperature          | 640°F (337.78°C) estimated |
| Decomposition temperature               | Not available | Viscosity                          | Not available              |
| Other Information                       |               |                                    |                            |
| Specific Gravity                        | 0.95          | VOC                                | < 5 gms/liter              |

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### Section 10 - STABILITY AND REACTIVITY

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#### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

#### Chemical Stability

Material is stable under normal conditions.

#### Possibility of Hazardous Reactions

Hazardous polymerizations does not occur.

#### Conditions to Avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

#### Incompatible Materials

Strong oxidizing agents.

#### Hazardous Decomposition Products

No hazardous decomposition products are known.

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### Section 11 - TOXICOLOGICAL INFORMATION

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#### Information likely routes of exposure

##### Ingestion

Expected to be a low ingestion hazard.

##### Inhalation

Prolonged inhalation may be harmful.

##### Skin Contact

Causes skin irritation.

##### Eye Contact

Causes eye irritation.

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### Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

| Product  | Species                | Test Results   |
|--|------------------------|--|
| 2000 Series Part B Coating and Lining (All Colors) (CAS Mixture) |                        |  |
| <b>Acute</b>   |                        |  |
| Dermal LD50  | Rabbit                 | 5757.0889 mg/kg estimated  |
| Inhalation LC50  | Rat                    | 2942.2148 mg/l, 8 Hours estimated  |
| Oral LD50  | Mouse<br>Rabbit<br>Rat | 4648.6997 mg/kg estimated<br>5707.897 mg/kg estimated<br>3548.4497 mg/kg estimated |
| Other LD50   | Mouse<br>Rat           | 2691.874 mg/kg estimated<br>894.0341 mg/kg estimated                               |
| <b>Components</b>  | <b>Species</b>         | <b>Test Results</b>  |
| BENZYL ALCOHOL (CAS 100-51-6)                                    |                        |  |
| <b>Acute</b>   |                        |  |
| Dermal LD50  | Rabbit                 | 2000 mg/kg   |
| Inhalation LC50  | Rat                    | 1000 mg/l, 8 Hours   |
| Oral LD50  | Mouse<br>Rabbit<br>Rat | 1580 mg/kg<br>1940 mg/kg<br>1230 – 3100 mg/kg                                      |
| Other LD50   | Mouse<br>Rat           | 950 mg/kg<br>314 mg/kg   |
| ETHYLENEDIAMINE (CAS 107-15-3)                                   |                        |  |
| <b>Acute</b>   |                        |  |
| Dermal LD50  | Rabbit                 | 730 mg/kg  |
| Oral LD50  | Guinea pig<br>Rat      | 470 mg/kg<br>500 mg/kg   |
| Other LD50   | Mouse<br>Rat           | 200 mg/kg<br>76 mg/kg  |

\* Estimates for product may be based on additional component data not shown.

### Skin corrosion/irritation

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Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation**

Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization**

Not available.

**Skin sensitization**

May cause sensitization by skin contact.

**Germ cell mutagenicity**

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

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

**US.OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity – single exposure**

Not classified.

**Specific target organ toxicity – repeated exposure**

Not classified.

**Aspiration hazard**

Not available.

**Chronic effects**

Prolonged inhalation may be harmful.

### Section 12 - ECOLOGICAL INFORMATION

**Ecotoxicity**

The product contains a substance which is toxic to aquatic organisms.

| Product | Species | Test Results |
|---------|---------|--------------|
|---------|---------|--------------|

|  |  |  |
|--|--|--|
| 2000 Series Part B Coating and Lining (All Colors) (CAS Mixture) |  |  |
|--|--|--|

|      |      |      |                                   |
|------|------|------|-----------------------------------|
| Fish | LC50 | Fish | 474.4284 mg/l, 96 hours estimated |
|------|------|------|-----------------------------------|

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

|                               |  |  |
|-------------------------------|--|--|
| BENZYL ALCOHOL (CAS 100-51-6) |  |  |
|-------------------------------|--|--|

**Aquatic**

|      |      |   |                   |
|------|------|---|-------------------|
| Fish | LC50 | Bluegill ( <i>Lepomis macrochirus</i> ) | 10 mg/l, 96 hours |
|------|------|---|-------------------|

|                                |  |  |
|--------------------------------|--|--|
| ETHYLENEDIAMINE (CAS 107-15-3) |  |  |
|--------------------------------|--|--|

**Aquatic**

|      |      |   |                             |
|------|------|---|-----------------------------|
| Fish | LC50 | Fathead minnow ( <i>Pimephales promelas</i> ) | 98.6 – 131.6 mg/l, 96 hours |
|------|------|---|-----------------------------|

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**

No data is available on the degradability of this product.

**Bioaccumulative potential**

No data available.

**Partition coefficient n-octanol / water (log Kow)**

|                 |               |
|-----------------|---------------|
| BENZYL ALCOHOL  | 1.1           |
| ETHYLENEDIAMINE | 2.04, at pH13 |





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**Mobility in soil**

No data available.

**Other adverse effects**

No other adverse environmental effects are expected from this component.

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### Section 13 - DISPOSAL CONSIDERATIONS

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**Disposal instructions**

When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

**Local disposal regulations**

Dispose in accordance with all applicable regulations.

**Hazardous waste code**

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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### Section 14 - TRANSPORT INFORMATION

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**DOT** Not regulated as dangerous goods.

**IATA** Not regulated as dangerous goods.

**IMDG** Not regulated as dangerous goods.

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

Not available.

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### Section 15 - REGULATORY INFORMATION

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**US federal regulations**

All components are on the U.S. EPA

**TSCA Inventory List. TSCA Section 12(b) Eport Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

ETHYLENEDIAMINE (CAS 107-15-3)

Listed.

**US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz/ Subs.: Section 304 EHS reportable quantity**

ETHYLENEDIAMINE (CAS 107-15-3)

5000 LBS

**US. OSHA Specifically Regulated Substances (29 CFR 1910,1001-1050)**

Not listed.



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### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories  
Immediate Hazard – Yes  
Delayed Hazard – No  
Fire Hazard – No  
Pressure Hazard – No  
Reactivity Hazard – No

### SARA 302 Extremely hazardous substance

| Chemical name | CAS number | Reportable | Threshold quantity planning | Threshold planning quantity lower value | Threshold planning quantity, upper value |
|---------------|------------|------------|-----------------------------|---|--|
|---------------|------------|------------|-----------------------------|---|--|

|                 |          |      |           |  |  |
|-----------------|----------|------|-----------|--|--|
| ETHYLENEDIAMINE | 107-15-3 | 5000 | 10000 lbs |  |  |
|-----------------|----------|------|-----------|--|--|

SARA 311/312 No

SARA 313 (TRI reporting) Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

ETHYLENEDIAMINE (CAS 107-15-3)

Safe Drinking Water Act (SDWA) Not regulated.

### US state regulations

#### US. Massachusetts RTK – Substance List

BENZYL ALCOHOL (CAS 100-51-6)

ETHYLENEDIAMINE (CAS 107-15-3)

TRIETHYLENETETRAMINE (CAS 112-24-3)

#### US. New Jersey Worker and Community Right-to-Know Act

ETHYLENEDIAMINE (CAS 107-15-3) 500 LBS

#### US. Pennsylvania RTK – Hazardous Substances

BENZYL ALCOHOL (CAS 100-51-6)

ETHYLENEDIAMINE (CAS 107-15-3)

TRIETHYLENETETRAMINE (CAS 107-15-3)

#### US. Rhode Island RTK

ETHYLENEDIAMINE (CAS 107-15-3)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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## Section 16 - OTHER INFORMATION

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### NFPA Ratings



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Health: 3 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Summary of Changes

Revision Date: June 1, 2018

Revision Note: General Update

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### Other Information

#### Disclaimer:

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