SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Mixtures
Product Name: Caustic Soda 25%

Intended Use of the Product
Neutralizer and alkalinity control in analytical chemistry. Absorption of NO\textsubscript{x}, SO\textsubscript{3}, and CO\textsubscript{2} in gas streams. Manufacture of high-purity sodium compounds. Etchant in semiconductor wet processing. Photo-engraving and lithography. Hydrolyzing fats in soaps. Bleaching textiles and mercerizing cotton.

Name, Address, and Telephone of the Responsible Party
Manufacturer
CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For SDS Info: (416) 496-5856
www.chemtradelogistics.com

Emergency Telephone Number
Emergency Number :
Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300
INTERNATIONAL: +1-703-741-5970
Chemtrade Emergency Contact: (866) 416-4404
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
GHS Classification
Met. Corr. 1 H290
Skin Corr. 1A H314
Eye Dam. 1 H318
Aquatic Acute 3 H402

Full text of hazard classes and H-statements : see section 16

Label Elements
GHS Labeling
Hazard Pictograms : 

Signal Word : Danger
Hazard Statements : H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H402 - Harmful to aquatic life

Precautionary Statements : P234 - Keep only in original container.
P260 - Do not breathe vapors, mist, spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves, face protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P310 - Immediately call a POISON CENTER/doctor.
P321 - Specific treatment (see Section 4).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

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

Unknown acute toxicity
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Name</th>
<th>Product Identifier (CAS-No.)</th>
<th>%*</th>
<th>GHS Ingredient Classification</th>
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<tr>
<td></td>
<td>Water</td>
<td>(7732-18-5)</td>
<td>72 - 77</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

Description of 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: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Immediately flush skin with plenty of water for at least 60 minutes. Remove contaminated clothing. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

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.

Inhalation: May be corrosive to respiratory tract.

Skin Contact: Corrosive. Causes burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Caustic Soda 25%
Safety Data Sheet

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.
Explosion Hazard: Product is not explosive.
Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
Firefighting Instructions: Use water spray or fog for cooling exposed containers.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Corrosive vapors.
Reference to Other Sections
Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.
For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protective equipment (PPE).

For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: 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 the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and Materials for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect spillage.
Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections
See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, or spray.

Additional Hazards When Processed: May release corrosive vapors.

Hygiene Measures: Handle in accordance with good industrial hygiene 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: Comply with applicable regulations.
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures and incompatible materials.

Specific Rules on Packaging: Store in original container or corrosive resistant and/or lined container.

Specific End Use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.
Caustic Soda 25%
Safety Data Sheet

<table>
<thead>
<tr>
<th>Sodium hydroxide (1310-73-2)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Mexico OEL Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>USA ACGIH ACGIH Ceiling (mg/m³)</td>
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</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
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</tr>
<tr>
<td>USA NIOSH NIOSH REL (ceiling) (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>USA IDLH US IDLH (mg/m³)</td>
<td>10 mg/m³</td>
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<tr>
<td>Alberta OEL Ceiling (mg/m³)</td>
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<tr>
<td>British Columbia OEL Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Manitoba OEL Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>New Brunswick OEL Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
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<tr>
<td>Newfoundland &amp; Labrador OEL Ceiling (mg/m³)</td>
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<td>Nova Scotia OEL Ceiling (mg/m³)</td>
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<td>Northwest Territories OEL Ceiling (mg/m³)</td>
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<tr>
<td>Prince Edward Island OEL Ceiling (mg/m³)</td>
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</tr>
<tr>
<td>Québec PLAFOND (mg/m³)</td>
<td>2 mg/m³</td>
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<tr>
<td>Saskatchewan OEL Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Yukon OEL Ceiling (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

**Exposure Controls**
- **Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
- **Materials for Protective Clothing:** Chemically resistant materials and fabrics.
- **Hand Protection:** Wear chemically resistant protective gloves.
- **Eye Protection:** Chemical safety goggles and face shield.
- **Skin and Body Protection:** Wear suitable protective clothing.
- **Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- **Environmental Exposure Controls:** Do not allow the product to be released into the environment.
- **Consumer Exposure Controls:** Do not eat, drink or smoke during use.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Physical State</td>
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<tr>
<td>Appearance</td>
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<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>13 - 14</td>
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<td>Evaporation Rate</td>
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<tr>
<td>Melting Point</td>
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<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
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</table>
Caustic Soda 25%
Safety Data Sheet

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
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<tr>
<td>Lower Flammable Limit</td>
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<tr>
<td>Upper Flammable Limit</td>
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<tr>
<td>Vapor Pressure</td>
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<td>Relative Vapor Density at 20°C</td>
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<tr>
<td>Relative Density</td>
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<td>Specific Gravity</td>
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<tr>
<td>Solubility</td>
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<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
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<tr>
<td>Viscosity</td>
<td>Not available</td>
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</table>

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

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

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong oxidizers. Metals.

**Hazardous Decomposition Products:** None expected under normal conditions of use.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Information on Toxicological Effects - Product**

- Acute Toxicity (Oral): Not classified
- Acute Toxicity (Dermal): Not classified
- Acute Toxicity (Inhalation): Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

- pH: 13 - 14

**Eye Damage/Irritation:** Causes serious eye damage.

- pH: 13 - 14

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Effects After Inhalation:** May be corrosive to respiratory tract.

**Symptoms/Effects After Skin Contact:** Corrosive. Causes burns.

**Symptoms/Effects After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Effects After Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None expected under normal conditions of use.

**Information on Toxicological Effects - Ingredient(s)**

**LD50 and LC50 Data:** Not available

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**

**Ecology - General:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Ecology - Water:** Harmful to aquatic life.

<table>
<thead>
<tr>
<th>Sodium hydroxide (1310-73-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
</tr>
</tbody>
</table>
Caustic Soda 25%

Safety Data Sheet


EC50 Daphnia 1: 40 mg/l

**Persistence and Degradability** Not available

**Bioaccumulative Potential** Not available

**Mobility in Soil** Not available

**Other Adverse Effects**

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations**: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information**: Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials**: Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>TRANSPORTATION CLASSIFICATION</th>
<th>DOT</th>
<th>TDG</th>
<th>IMDG</th>
<th>IATA</th>
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<td>SODIUM HYDROXIDE SOLUTION</td>
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<td>Transport Hazard Class(es)</td>
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<td>Additional Information</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Environment Hazards**

- Marine Pollutant: No
- Emergency Response: ERG Number: 154
- ERAP Index: Not applicable
- EMS: F-A, S-B
- ERG code (IATA): 8L

### SECTION 15: REGULATORY INFORMATION

**US Federal Regulations**

- Chemical Name (CAS No.): Sodium hydroxide (1310-73-2)
- CERCLA RQ: 1000 lb
- EPCRA 304 RQ: Not applicable
- SARA 302 TPQ: Not applicable
- SARA 313: No

**SARA 311/312**

- Caustic Soda 25%
- Immediate (acute) health hazard

**US TSCA Flags**

- Not present

**US State Regulations**

- California Proposition 65

<table>
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<tr>
<th>Chemical Name (CAS No.)</th>
<th>Carcinogenicity</th>
<th>Developmental Toxicity</th>
<th>Female Reproductive Toxicity</th>
<th>Male Reproductive Toxicity</th>
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<tbody>
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<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**State Right-To-Know Lists**

- Sodium hydroxide (1310-73-2)
Caustic Soda 25%

Safety Data Sheet


U.S. - Massachusetts - Right To Know List - Yes
U.S. - New Jersey - Right to Know Hazardous Substance List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List - Yes
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances - No
U.S. - Pennsylvania - RTK (Right to Know) List - Yes

Canadian Regulations

Sodium hydroxide (1310-73-2)
Listed on the Canadian DSL (Domestic Substances List)
Not listed on the Canadian NDSL (Non-Domestic Substances List)

International Inventories/Lists

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>Australia AICS</th>
<th>Turkey CICR</th>
<th>Korea ECL</th>
<th>EU EINECS</th>
<th>EU ELINCS</th>
<th>EU SVHC</th>
<th>EU NLP</th>
<th>Mexico INSQ</th>
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<tr>
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<td>Yes</td>
<td>Yes</td>
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<td>No</td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name (CAS No.)</th>
<th>China IECSC</th>
<th>Japan ENCS</th>
<th>Japan ISHL</th>
<th>Japan PDSCL</th>
<th>Japan PRTR</th>
<th>Philippines PICCS</th>
<th>New Zealand NZIOC</th>
<th>US TSCA</th>
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<tbody>
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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 03/31/2017

Revision Summary

<table>
<thead>
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<th>Section</th>
<th>Change</th>
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<td>11</td>
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</table>

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR).

GHS Full Text Phrases:

Aquatic Acute 3: Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1: Serious eye damage/eye irritation Category 1
HHNOC 1: Health Hazards Not Otherwise Classified, Category 1
Met. Corr. 1: Corrosive to metals Category 1
Skin Corr. 1A: Skin corrosion/irritation Category 1A
H290: May be corrosive to metals
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H402: Harmful to aquatic life

NFPA 704

NFPA Health Hazard: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA Fire Hazard: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
Caustic Soda 25%
Safety Data Sheet

**NFPA Reactivity Hazard**
1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

**HMIS Rating**

- **Health**: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- **Flammability**: 0 Minimal Hazard
- **Physical**: 1 Slight Hazard
- **PPE**: See Section 8

**Abbreviations and Acronyms**

- AICS – Australian Inventory of Chemical Substances
- ACGIH – American Conference of Governmental Industrial Hygienists
- AIHA – American Industrial Hygiene Association
- ATE - Acute Toxicity Estimate
- BCF - Bioconcentration factor
- BEI - Biological Exposure Indices (BEI)
- CAS No. - Chemical Abstracts Service number
- CERCLA RQ - Comprehensive Environmental Response, Compensation, and Liability Act - Reportable Quantity
- CICR - Turkish Inventory and Control of Chemicals
- EC50 - Median effective concentration
- ECL - Korea Existing Chemicals List
- EINECS - European Inventory of Existing Commercial Chemical Substances
- EmS - IMDG Emergency Schedule Fire & Spillage
- ENCS - Japanese Existing and New Chemical Substances Inventory
- EPA – Environmental Protection Agency
- EPCRA 304 RQ – EPCRA 304 Extremely Hazardous Substance Emergency Planning and Community Right-to-Know-Act – Reportable Quantity
- ErC50 - EC50 in Terms of Reduction Growth Rate
- ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)
- ERG No. - Emergency Response Guide Number
- HCCl - Hazard Communication Carcinogen List
- HMIS – Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- IATA - International Air Transport Association – Dangerous Goods Regulations
- IDLH - Immediately Dangerous to Life or Health
- IECS - Inventory of Existing Chemical Substances Produced or Imported in China
- IMDG - International Maritime Dangerous Goods Code
- INSQ - Mexican National Inventory of Chemical Substances
- AICS – Australian Inventory of Chemical Substances
- ACGIH – American Conference of Governmental Industrial Hygienists
- AIHA – American Industrial Hygiene Association
- ATE - Acute Toxicity Estimate
- BCF - Bioconcentration factor
- BEI - Biological Exposure Indices (BEI)
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- IARC - International Agency for Research on Cancer
- IATA - International Air Transport Association – Dangerous Goods Regulations
- IDLH - Immediately Dangerous to Life or Health
- IECS - Inventory of Existing Chemical Substances Produced or Imported in China
- IMDG - International Maritime Dangerous Goods Code
- INSQ - Mexican National Inventory of Chemical Substances

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