SAFETY DATA SHEET

Preparation Date: 8/29/2018
Revision Date: 8/29/2018
Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: C1460
Product Name: CYCLOHEXANOL, REAGENT

Other means of identification

Synonyms: Cyclohexyl alcohol; Hexahydrophenol; Hydroxycyclohexane
CAS #: 108-93-0
RTECS #: GV7875000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

Label elements

Warning

Hazard statements
Harmful if swallowed
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation

Product code: C1460
Product name: CYCLOHEXANOL, REAGENT
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Harmful to aquatic life with long lasting effects

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep cool

Precautionary Statements - Response
Specific treatment (see .? on this label)
In case of fire: Use CO2, dry chemical, or foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
If skin irritation 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. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanol</td>
<td>108-93-0</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water. Remove all contaminated clothes and

Product code: C1460  Product name: CYCLOHEXANOL, REAGENT
shoes. Get medical attention.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms

Moderately irritating to the skin
Moderately irritating to the eyes
Irritating to respiratory system
May cause nausea, headache, vomiting
May cause drowsiness or dizziness
May cause seizures
May affect the liver
It may affect the kidneys
Prolonged or repeated contact may cause drying and cracking of the skin

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray. Alcohol-resistant foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide.

Specific hazards: Combustible material. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapors may form explosive mixtures with air. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks).

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:  Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Remove all sources of ignition. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment.

Environmental precautions  Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for containment  Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up  Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:  Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice  Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


Incompatible Materials:  Oxidizing agents
Strong acids
Nitric acid
Strong bases
Aliphatic amines
Isocyanates

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

Product code: C1460  Product name: CYCLOHEXANOL, REAGENT
### United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<td>Cyclohexanol</td>
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<td>50 ppm TWA</td>
<td>50 ppm TWA</td>
<td>50 ppm TWA</td>
<td>None</td>
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<tr>
<td></td>
<td></td>
<td>200 mg/m³ TWA</td>
<td>200 mg/m³ TWA</td>
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### Canada

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<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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### Australia and Mexico

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<td></td>
<td></td>
<td>206 mg/m³ TWA</td>
<td>200 mg/m³ TWA</td>
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</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:**

Goggles

**Skin and body protection:**

Long sleeved clothing
Chemical resistant apron
Gloves

**Respiratory protection:**

Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
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<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
<th>Formula:</th>
<th>Flashpoint (°C/°F):</th>
<th>Lower Explosion Limit (%)</th>
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</thead>
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<tr>
<td>Liquid</td>
<td>No information available.</td>
<td>Colorless.</td>
<td>CH₂(CH₂)₄CHOH</td>
<td>62.8 °C/145 °F</td>
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<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Flammability:</th>
<th>Autoignition Temperature (°C/°F):</th>
<th>Melting point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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</thead>
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<td>Camphor-like.</td>
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<td>Combustible liquid</td>
<td>300 °C/572 °F</td>
<td>25.93 °C/78.67 °F</td>
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<table>
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<tr>
<th>Molecular/Formula weight (g/mole):</th>
<th>Flash Point Tested according to:</th>
<th>Upper Explosion Limit (%):</th>
<th>Boiling point/range(°C/°F):</th>
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<tr>
<td>100.16</td>
<td>Closed cup</td>
<td>12</td>
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</table>

**Product code:** C1460  
**Product name:** CYCLOHEXANOL, REAGENT
10. STABILITY AND REACTIVITY

Reactivity
No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Oxidizing agents
Strong acids
Nitric acid
Strong bases
Aliphatic amines
Isocyanates

Hazardous decomposition products: Carbon oxides.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.

Acute Toxicity

Product code: C1460
Product name: CYCLOHEXANOL, REAGENT
The following values are calculated based on chapter 3.1 of the GHS document

### Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LD50/dermal/rat</th>
<th>LC50/inhalation/rat</th>
<th>LC50/inhalation/mouse</th>
<th>Other LD50 or LC50 information</th>
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</thead>
<tbody>
<tr>
<td>Cyclohexanol</td>
<td>108-93-0</td>
<td>2.06 g/kg Oral LD50 Rat; 1400 mg/kg Oral LD50 Rat</td>
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<td>501 - 794 mg/kg Dermal LD50</td>
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<td>3.6 mg/L Inhalation LC50 Rat 4 h</td>
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<td>No information available</td>
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</tbody>
</table>

### Product Information

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<th>LD50/oral/rat</th>
<th>VALUE- Acute Tox Oral</th>
<th>1400 mg/kg</th>
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</thead>
<tbody>
<tr>
<td>LD50/oral/mouse</td>
<td>Value - Acute Tox Oral</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/dermal/rabbit</td>
<td>VALUE-Acute Tox Dermal</td>
<td>501 mg/kg</td>
</tr>
<tr>
<td>LD50/dermal/rat</td>
<td>VALUE -Acute Tox Dermal</td>
<td>No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat</td>
<td>VALUE-Vapor</td>
<td>&gt;3.63 mg/l (4-hr)</td>
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<tr>
<td></td>
<td>VALUE-Gas</td>
<td>No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE-Dust/Mist</td>
<td>No information available</td>
</tr>
<tr>
<td>LC50/Inhalation/mouse</td>
<td>VALUE-Vapor</td>
<td>No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE - Gas</td>
<td>No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE - Dust/Mist</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### Symptoms

**Skin Contact:** Causes skin irritation. Moderately irritating to the skin. May be absorbed through the skin in harmful amounts. If absorbed through skin it may cause systemic effects.

**Eye Contact:** Causes serious eye irritation. Moderately irritating to the eyes.

**Inhalation** Harmful by inhalation. Irritating to respiratory system. May cause dizziness and headache. May cause nausea, vomiting.

**Ingestion** Harmful if swallowed. May cause gastritis. May cause diarrhea. May affect behavior/central nervous system (somnolence). May affect behavior/central nervous system (convulsions/seizures).

**Aspiration hazard** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** Prolonged skin contact may cause drying and cracking of the skin. Chronic exposure may affect the liver and kidneys.

**Product code:** C1460  **Product name:** CYCLOHEXANOL, REAGENT
Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Cyclohexanol</td>
<td>108-93-0</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity: No data is available

Reproductive Effects: May impair fertility
May cause harm to the unborn child

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Cyclohexanol - 108-93-0

Freshwater Algae Data: 29.2 mg/L EC50 Desmodesmus subspicatus 72 h 29 mg/L EC50 Desmodesmus subspicatus 96 h

Freshwater Fish Species Data: 704 mg/L LC50 Pimephales promelas 96 h flow-through 1 1033 mg/L LC50 Pimephales promelas 96 h static 1 1100 mg/L LC50 Lepomis macrochirus 96 h static 1

Water Flea Data: 500 mg/L EC50 Daphnia magna Straus 24 h 578 mg/L EC50 Daphnia magna 24 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product code: C1460
Product name: CYCLOHEXANOL, REAGENT
Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanol</td>
<td>108-93-0</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

#### DOT
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Class**
- **Packing group:** No information available
- **Emergency Response Guide Number**
- **Marine Pollutant** No data available
- **DOT RQ (lbs):** No information available
- **Special Provisions** No Information available
- **Symbol(s):** No information available
- **Description:** No information available

#### TDG (Canada)
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** No information available
- **Marine Pollutant** No Information available
- **Description:** No information available

#### ADR
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Packing Group:** No information available
- **Subsidiary Risk:** No information available

#### IMO / IMDG
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Packing Group:** No information available
- **Subsidiary Risk:** No information available

#### RID
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** No information available

### ICAO

**Product code:** C1460  
**Product name:** CYCLOHEXANOL, REAGENT
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Cyclohexanol</td>
<td>108-93-0</td>
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<td>Present</td>
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</table>

U.S. Regulations

Cyclohexanol
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 0569
New Jersey (EHS) List: 0569 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Present
Minnesota - Hazardous Substance List: Present
California Directors List of Hazardous Substances: Present


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<td>Cyclohexanol</td>
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CERCLA/SARA

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and ROs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
<td>Cyclohexanol</td>
<td>108-93-0</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1.0 % de minimis concentration</td>
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U.S. TSCA

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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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Product code: C1460  Product name: CYCLOHEXANOL, REAGENT
Cyclohexanol 108-93-0 Not Applicable 08/04/1995 06/30/1998

Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification

Information:

Component
Cyclohexanol 108-93-0 (100)

Flammable liquids - Category 4: H227 Combustible liquid.;
Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.

Canada Hazardous Products Regulation

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Components

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<th>WHMIS Ingredient Disclosure List -</th>
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Inventory

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<th>Canada (NDSL)</th>
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Components

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<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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EU Classification

EU GHS - SV - CLP 1272/2008

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<td>Cyclohexanol</td>
<td>108-93-0</td>
<td>Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.603-009-00-3</td>
</tr>
</tbody>
</table>

EU - CLP (1272/2008)

R-phrase(s)

R20/22 - Harmful by inhalation and if swallowed.
R37/38 - Irritating to respiratory system and skin.

S-phrase(s)

S 2 - Keep out of the reach of children.
S24/25 - Avoid contact with skin and eyes.

Product code: C1460
Product name: CYCLOHEXANOL, REAGENT

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### Components

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexanol</td>
<td>108-93-0</td>
<td>Xn; R20/22 Xi; R37/38</td>
<td>No information</td>
<td>S2 S24/25</td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
Xn - Harmful.
Xi - Irritant.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Preparation Date:</th>
<th>8/29/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date:</td>
<td>8/29/2018</td>
</tr>
<tr>
<td>Prepared by:</td>
<td>Sonia Owen</td>
</tr>
</tbody>
</table>

**Disclaimer:**
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**End of Safety Data Sheet**