SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Product Name: Cyclohexane
Material: 1015388, 1098296, 1080331, 1059057, 1026806, 1025303, 1026803, 1026805

Company: Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Emergency telephone:

Health:
866.442.9628 (North America)
1.832.813.4984 (International)

Transport:
CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Mexico CHEMTREC 01-800-681-9531 (24 hours)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431

Responsible Department: Product Safety and Toxicology Group
E-mail address: SDS@CPChem.com
Website: www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture
This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification:
- Flammable liquids, Category 2
- Skin irritation, Category 2
- Specific target organ toxicity - single exposure, Category 3
- Central nervous system
- Aspiration hazard, Category 1
Cyclohexane

Version 2.13
Revision Date 2019-09-11

Labeling

Symbol(s):  

Signal Word: Danger

Hazard Statements:  
H225: Highly flammable liquid and vapor.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H336: May cause drowsiness or dizziness.

Precautionary Statements:  
Prevention:  
P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/eye protection/face protection.

Response:  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

Disposal:  
P501 Dispose of contents/container to an approved waste disposal plant.

Carcinogenicity:

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Cyclohexane

SECTION 3: Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>Not Established</th>
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</thead>
<tbody>
<tr>
<td>Molecular formula</td>
<td>C6H12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
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</thead>
<tbody>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>99.9 - 100</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

General advice: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If inhaled: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.

In case of skin contact: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: -18.3 °C (-0.9 °F)
Method: closed cup

Autoignition temperature: 260 °C (500 °F)

Suitable extinguishing media: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media: High volume water jet.

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.
Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

Fire and explosion protection : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products : Carbon Dioxide. Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7: Handling and storage

Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 “Flammable and Combustible Liquids”; National Fire...
Cyclohexane

Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents".

Advice on protection against fire and explosion: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane</td>
<td>ACGIH</td>
<td>TWA</td>
<td>100 ppm,</td>
<td>CNS impair,</td>
</tr>
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<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>300 ppm, 1.050 mg/m³</td>
<td>(b),</td>
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<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>300 ppm, 1.050 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.5 ppm,</td>
<td>leukemia, BEI, A1, Skin,</td>
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<tr>
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<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>1 ppm,</td>
<td>leukemia, BEI, A1, Skin,</td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>CEIL</td>
<td>5 ppm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-2</td>
<td>Peak</td>
<td>50 ppm,</td>
<td>(a),</td>
</tr>
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<td></td>
<td>OSHA 29 CFR 1910.1028(c)</td>
<td>TWA</td>
<td>1 ppm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA 29 CFR 1910.1028(c)</td>
<td>STEL</td>
<td>5 ppm,</td>
<td></td>
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<tr>
<td></td>
<td>OSHA CARC</td>
<td>PEL</td>
<td>1 ppm,</td>
<td></td>
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<tr>
<td></td>
<td>OSHA CARC</td>
<td>STEL</td>
<td>5 ppm,</td>
<td></td>
</tr>
</tbody>
</table>

(a) This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.
(b) The value in mg/m³ is approximate.
CNS impair Central Nervous System impairment
leukemia Leukemia
Skin Danger of cutaneous absorption

Personal protective equipment

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
**Cyclohexane**

**Hand protection**: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye protection**: Eye wash bottle with pure water. Tightly fitting safety goggles.

**Skin and body protection**: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

**Hygiene measures**: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance**
- **Physical state**: Liquid
- **Color**: Colorless
- **Odor**: chlorform-like, irritating

**Safety data**
- **Flash point**: -18.3 °C (-0.9 °F)
  - Method: closed cup
- **Lower explosion limit**: 1.3 % (V)
- **Upper explosion limit**: 8 % (V)
- **Oxidizing properties**: no
- **Autoignition temperature**: 260 °C (500 °F)
- **Molecular formula**: C₆H₁₂
- **Molecular weight**: 84.18 g/mol
- **pH**: Not applicable
- **Pour point**: No data available
- **Melting point/range**: 6.59 °C (43.86 °F)
- **Boiling point/boiling range**: 80.7 °C (177.3 °F)
- **Vapor pressure**: 3.26 PSI
  - at 37.8 °C (100.0 °F)
**Cyclohexane**

**Relative density** : 0.78 at 15.6 °C (60.1 °F)

**Density** : 0.8 g/cm³

**Water solubility** : Soluble in hydrocarbon solvents, natural oils, fats, and waxes; insoluble in water.

**Partition coefficient: n-octanol/water** : No data available

**Viscosity, kinematic** : 0.953 cSt at 37.8 °C (100.0 °F)

**Relative vapor density** : 2.9 (Air = 1.0)

**Evaporation rate** : 1.95

**Percent volatile** : > 99%

**Conductivity** : < 5 pSm

---

**SECTION 10: Stability and reactivity**

**Reactivity** : Stable at normal ambient temperature and pressure.

**Chemical stability** : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions**

**Hazardous reactions** : Hazardous polymerization does not occur.

Further information: No decomposition if stored and applied as directed.

Hazardous reactions: Vapors may form explosive mixture with air.

**Conditions to avoid** : Heat, flames and sparks.

**Materials to avoid** : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Hazardous decomposition products** : Carbon Dioxide

Carbon oxides

**Other data** : No decomposition if stored and applied as directed.
SECTION 11: Toxicological information

**Cyclohexane**

**Acute oral toxicity**

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

**Acute inhalation toxicity**

Cyclohexane
LC50: >32,880 mg/m3
Exposure time: 4 h
Species: Rat
Sex: male and female
Test atmosphere: vapor
Method: OECD Test Guideline 403

**Skin irritation**

May cause skin irritation in susceptible persons.

**Eye irritation**

No adverse effects expected. Vapors may cause irritation to the eyes, respiratory system and the skin.

**Sensitization**

Did not cause sensitization on laboratory animals.

**Repeated dose toxicity**

Species: Rat
Application Route: Inhalation
Dose: 0, 500, 2000, 7000 ppm
Exposure time: 90 day
Number of exposures: 6 h/d, 5 d/wk
NOEL: 2000 ppm

Species: Rat, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 0, 500, 2000, 7000 ppm
Exposure time: 13-14 wk
Number of exposures: 6 hr/d, 5 d/wk
NOEL: 7000 ppm

Species: Mouse, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 0, 500, 2000, 7000 ppm
Exposure time: 13-14 wk
Number of exposures: 6 hr/d, 5 d/wk
NOEL: 2000 ppm
Target Organs: Blood

**Genotoxicity in vitro**

Test Type: Ames test
Metabolic activation: with and without metabolic activation
### Genotoxicity in vivo

**Cyclohexane**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity (Escherichia coli - reverse mutation assay)</td>
<td>negative</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse lymphoma assay</td>
<td>negative</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse lymphoma assay</td>
<td>negative</td>
</tr>
</tbody>
</table>

**Method:** OECD Guideline 476

### Reproductive toxicity

**Cyclohexane**

<table>
<thead>
<tr>
<th>Species</th>
<th>Dose</th>
<th>Number of exposures</th>
<th>Test period</th>
<th>Method</th>
<th>NOAEL Parent</th>
<th>NOAEL F1</th>
<th>NOAEL F2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>0, 500, 2000, 7000 ppm</td>
<td>6 hr/d, 5 d/wk</td>
<td>GD 6-15</td>
<td>OECD Test Guideline 416</td>
<td>500 ppm</td>
<td>7000 ppm</td>
<td>7000 ppm</td>
</tr>
</tbody>
</table>

**Species:** Rat

**Application Route:** Inhalation

**Dose:** 0, 500, 2000, 7000 ppm

**Number of exposures:** 6 hr/d, 5 d/wk

**Method:** OECD Test Guideline 416

**NOAEL Parent:** 500 ppm

**NOAEL F1:** 7000 ppm

**NOAEL F2:** 7000 ppm

### Developmental Toxicity

**Cyclohexane**

<table>
<thead>
<tr>
<th>Species</th>
<th>Dose</th>
<th>Number of exposures</th>
<th>Test period</th>
<th>Method</th>
<th>NOAEL Teratogenicity</th>
<th>NOAEL Maternal</th>
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<tbody>
<tr>
<td>Rat</td>
<td>0, 500, 2,000, 7,000 PPM</td>
<td>6 hr/d</td>
<td>GD 6-15</td>
<td>OECD Guideline 414</td>
<td>7,000 ppm</td>
<td>500 ppm</td>
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</table>

**Species:** Rat

**Application Route:** Inhalation

**Dose:** 0, 500, 2,000, 7,000 PPM

**Number of exposures:** 6 hr/d

**Test period:** GD 6-15

**Method:** OECD Guideline 414

**NOAEL Teratogenicity:** 7,000 ppm

**NOAEL Maternal:** 500 ppm

**Species:** Rabbit

**Application Route:** Inhalation

**Dose:** 0, 500, 2,000, 7,000 PPM

**Number of exposures:** 6 hr/d

**Test period:** GD 6-18

**Method:** OECD Guideline 414

**NOAEL Teratogenicity:** 7,000 ppm

**NOAEL Maternal:** 500 ppm

### Cyclohexane Aspiration toxicity

**Aspiration toxicity:** May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
Cyclohexane

CMR effects
Cyclohexane : Carcinogenicity: Not classifiable as a human carcinogen.
Mutagenicity: Did not show mutagenic effects in animal experiments.
Teratogenicity: Did not show teratogenic effects in animal experiments.
Reproductive toxicity: No toxicity to reproduction

Cyclohexane
Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

SECTION 12: Ecological information

Ecotoxicity effects
Toxicity to fish
Cyclohexane : LC50: 4.53 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
Cyclohexane : EC50: 0.9 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae
Cyclohexane : EbC50: 3.4 mg/l
Exposure time: 72 h
Species: Selenastrum capricornutum (algae)
NOEC: 0.925 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (microalgae)
Method: OECD Test Guideline 201

M-Factor
cyclohexane : M-Factor (Acute Aquat. Tox.) 1

Biodegradability
Cyclohexane : 77 %
Testing period: 28 d
Method: OECD Test Guideline 301
Cyclohexane

This material is expected to be readily biodegradable.

Elimination information (persistence and degradability)

Bioaccumulation

Cyclohexane : Bioconcentration factor (BCF): 167
This material is not expected to bioaccumulate.

Mobility : No data available

Results of PBT assessment
Cyclohexane : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard
Cyclohexane : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard
Cyclohexane : Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the
Cyclohexane

bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**
UN1145, CYCLOHEXANE, 3, II, RQ (CYCLOHEXANE)

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**
UN1145, CYCLOHEXANE, 3, II, (-18.3 °C), MARINE POLLUTANT, (CYCLOHEXANE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**
UN1145, CYCLOHEXANE, 3, II

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**
UN1145, CYCLOHEXANE, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**
UN1145, CYCLOHEXANE, 3, II, ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE)

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**
UN1145, CYCLOHEXANE, 3, II, ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE)

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

**Other information** : Cyclohexane, S.T. 2, Cat. Y

### SECTION 15: Regulatory information

**National legislation**

**SARA 311/312 Hazards**
- Flammable (gases, aerosols, liquids, or solids)
- Skin corrosion or irritation
- Specific target organ toxicity (single or repeated exposure)
- Aspiration hazard

**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW**

**CERCLA Reportable Quantity**
- 1000 lbs
  - Cyclohexane

**SARA 302 Threshold**
- No chemicals in this material are subject to the reporting
SAFETY DATA SHEET

Cyclohexane

Planning Quantity requirements of SARA Title III, Section 302.

SARA 313 Components

: Cyclohexane - 110-82-7

Clean Air Act

Ozone-Depletion Potential: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

: Benzene - 71-43-2

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

: Benzene - 71-43-2

US State Regulations

Pennsylvania Right To Know

: Cyclohexane - 110-82-7
: Benzene - 71-43-2

California Prop. 65 Components

WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov/food.

Benzene 71-43-2

WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Benzene 71-43-2

Notification status

Europe REACH: This product is in full compliance according to REACH

SDS Number:100000068314 13/15
Cyclohexane

SECTION 16: Other information

NFPA Classification

Health Hazard: 1
Fire Hazard: 3
Reactivity Hazard: 0

Further information

Legacy SDS Number: 895

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

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

Key or legend to abbreviations and acronyms used in the safety data sheet

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>CNS</td>
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SDS Number: 100000068314
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<th>NOAEL</th>
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<td>PICCS</td>
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