



**COLUMBUS CHEMICAL INDUSTRIES INC.**

P.O. BOX 8  
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**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY** (as Used on Label and List)

**Cyclohexane**

**Note:** Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

920-623-2140

Date Prepared

03-08-2006

Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Cyclohexane* **	110-82-7	300 ppm	300 ppm	300 ppm(REL)	100%

\*Subject to SARA Section 313 Reporting Requirements.

\*\* Hexamethylene

**Section III - Physical/Chemical Characteristics**

Boiling Point	81°C (178°F)	Specific Gravity (H <sub>2</sub> O = 1)	0.7780
Vapor Pressure (mm Hg) @ 20°C	78 mmHg	Melting Point	7°C (44°F)
Vapor Density (AIR = 1)	2.9	Evaporation Rate (Butyl Acetate = 1)	5.6

Solubility in Water

Soluble

Appearance and Odor

Colorless, water white liquid with chloroform odor.

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
-20 °C (-4 °F) (Tag. closed cup)		1.2%	8.3%

Extinguishing Media

Carbon dioxide, "alcohol-type foam" or dry chemical

Special Fire Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece respirator operated in positive pressure mode.

Unusual Fire and Explosion Hazards

There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the container. Vaporizes easily at normal temperatures. Vapor can travel to an ignition source and flash back.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Heat, ignition sources, moisture.
	Stable	X		

**Incompatibility Materials to Avoid**

Strong Oxidizers

**Hazardous Decomposition or Byproducts**

Carbon oxides

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		Not applicable.
	Will Not Occur	X	

**Section VI Health Hazard Data****Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Yes		Yes	Yes
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**Health Hazards (Acute and Chronic)**

May be fatal if swallowed; harmful if inhaled or absorbed through skin. Causes skin, eye and upper respiratory tract irritation. Can cause central nervous system depression. Chronic exposure can cause lungs, central nervous system damage. Possesses narcotic like activities.

**Carcinogenicity****NTP****IARC Monographs****OSHA REGULATED?**

	Not Listed	Not Listed	Not Listed
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**Signs and Symptoms of Exposure.**

Moderate exposure can cause headache, nausea, tearing and blurred vision. Overexposure may produce depression, dizziness, drowsiness, fatigue, chest pain or lung edema. Ingestion may cause gastrointestinal irritation.

**Medical Conditions Generally Aggravated by Exposure**

Expected to aggravate asthma, emphysema, other respiratory diseases and existing dermatitis.

**Emergency and First Aid Procedures**

**INGESTION:** If swallowed, wash out mouth with water, call a physician. Do not leave victim unattended. **EYES:** In case of contact, immediately flush with large amounts of water for at least 15 minutes. Call physician. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. **SKIN:** Immediately wash skin with soap and large amounts of water.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, rubber boots, apron and heavy rubber gloves. Contain spill with dikes, sand or noncombustible absorbent material. Sweep up and place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

**Waste Disposal Method**

Dispose of spillage, empty containers, and other materials used for clean up in accordance with all Federal, state, and local regulations.

**Precautions to be Taken in Handling and Storing**

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a resistant area away from oxidizers. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. Keep away from ignition sources.

**Other Precautions**

Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Ground containers and ensure ventilation when transferring material.

**Section VII Control Measures****Respiratory Protection (Specify Type)**

NIOSH/MSHA approved respirator fitted with organic vapor cartridge.

**Ventilation****Local Exhaust**

Necessary

**Special**

Eye wash nearby.

**Mechanical (General)**

Recommended

**Other**

Safety Shower nearby.

**Protective Gloves**

Appropriate chemical resistant gloves

**Eye Protection**

Chemical Safety Goggles, Full Face Shield.

**Other Protective Clothing or Equipment**

Protective clothing, faceshield and boots is recommended.

**Work /Hygienic Practices**

Do NOT wear contact lenses. Wash thoroughly after handling. Avoid eye and skin contact.

Avoid breathing vapors. Follow safe handling and laboratory practices. Wash hands prior to eating or smoking.

**FLAMMABLE!** Avoid prolonged or repeated contact.

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