### Cyclohexene

# **CAROLINA**® www.carolina.com

#### **Section 1**

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Cyclohexene Science education applications 1,2,3,4-Tetrahydrobenzene, Benzenetetrahydride Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

#### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Toxic to aquatic life.

#### **GHS Classification:**

Aspiration Hazard Category 1, Flammable Liquid Category 2, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity · Oral Category 4

#### **Section 3**

#### **Composition / Information on Ingredients**

Chemical NameCAS #%Cyclohexene110-83-8100	
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#### Section 4

#### **First Aid Measures**

Emergency and Fir	st Aid Procedures
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### **Section 5**

### **Firefighting Procedures**

Extinguishing Media: Fire Fighting Methods and Protection:	Water fog Water in flooding amounts. Do not use dry chemical, CO2, or halon. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

#### Section 6

#### **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

Section 7

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

#### Handling and Storage

 

 Handling:
 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

 Storage:
 Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

 Storage Code:
 Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

#### ACGIH **OSHA PEL** (STEL) (STEL) **Chemical Name** (TWA) (TWA) Cyclohexene 300 ppm TWA 300 ppm TWA; N/A N/A 1015 ma/m3 TWA **Control Parameters** Local exhaust ventilation or other engineering controls are normally required when Engineering Measures: handling or using this product to avoid overexposure. Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower. **Respiratory Protection:** Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. None required where adequate ventilation is provided. If airborne concentrations are Respirator Type(s): above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station Eye Protection: available. **Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Nitrile Gloves:

#### Section 9

Formula: C6H10 Molecular Weight: 82.14 Appearance: Colorless Liquid Odor: Moderate Sweet Odor Threshold: No data available pH: No data available Melting Point: -104 C Boiling Point: 83 C Flash Point: -7 C Flammable Limits in Air: 0.8 - 2.8%

#### Section 10

Reactivity: Chemical Stability:

#### **Physical Data**

Vapor Pressure: 89 mmHg at 25 °C Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): 2.8 Specific Gravity: 0.8110 at 20 °C Solubility in Water: Soluble Log Pow (calculated): 2.86 Autoignition Temperature: 244 C Decomposition Temperature: No data available Viscosity: 0.770 Percent Volatile by Volume: 100%

#### Reactivity Data

Mildly reactive - See below Stable under normal conditions. May form explosive peroxides

Conditions to Avoid: Incompatible Materials Hazardous Decomposi Hazardous Polymeriza	ition Products:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Strong oxidizing agents Carbon oxides Will not occur <b>Toxicity Data</b>						
Delayed Effects:	Headache, Respi Anesthetic proper Dermititis Respiratory Irritat Chemical Pneum	spiratory Irritation emical Pneumonia ntral Nervous System Depression						
Acute Toxicity: Chemical Name Cyclohexene		<b>CAS Number</b> 110-83-8	<b>Oral LD50</b> Oral LD50 Rat 1946 mg/kg	<b>Dermal LD50</b> Dermal LD50 GUINEA PIG > 20 ml/kg	Inhalation LC50 INHALATION LC50 Mouse 50000 MG/M3			
Carcinogenicity: Chemical Name		CAS Number	IARC	NTP	OSHA			
Cyclohexene		CAS Number 110-83-8	Not listed	Not listed	Not listed			
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of No evidence of No evidence of	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. Lungs, Central Nervous System Skin						
Section 12		Ecological Data						
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This ma Evapor Biocono Biodegi	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. This material is expected to have only slight mobility in soil. It absorbs strongly to most soil types. Evaporation into atmosphere Bioconcentration may occur. Biodegrades slowly. No data						
Chemical Name Cyclohexene		CAS NumberEco Toxicity110-83-8Aquatic LC50 Guppy 7.1 MG/LAquatic EC50 (48h) Daphnia						
Section 13		Disposal Information						
Disposal Methods:		Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.						
Waste Disposal Code(	s):	If discarded, this produc		<b>,</b>				
Section 14		Trans	sport Informa	tion				
	Proper Shipping Name: Air - IATA Proper Shipping Name:							

UN2256 Cyclohexene Class 3 P.G. II
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### Section 15

### **Regulatory Information**

TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Cyclohexene	110-83-8	No	No	No	No	No

### **Section 16**

### **Additional Information**

#### Revised: 09/09/2015

Replaces: 09/03/2014

#### Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health