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& Boreal
Laboratories**

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MSDS No. CC0580
Effective Date: June 12, 2001

MATERIAL SAFETY DATA SHEET

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Cyclohexane	416-984-3000
Chemical Synonyms	N/A	NFPA
Formula	CH ₂ (CH ₂) ₄ CH ₂	Health 2 Flammability 4 Reactivity 0
CAS No.	110-82-7	HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Cyclohexane	100%	TWA: 300 ppm, 1030 mg/m ³
DANGER! Flammable.		

SECTION III PHYSICAL DATA

Melting Point (°C)	7°C	Specific Gravity (H ₂ O = 1)	0.784
Boiling Point (°C)	82°C	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	78 mm @ 20°C	Evaporation Rate (n-Butyl acetate = 1)	6.10
Vapor Density (Air=1)	2.7		
Solubility in Water	Insoluble.		
Appearance & Odor	Colorless liquid; characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	4°C (TCC)	Flammable Limits in Air % by Volume	Lower 1.2%	Upper 8.0%
Firefighting Procedures	Flammable liquid, insoluble in water. Use dry chemical, CO ₂ , alcohol foam or water spray.			

Flammability and Explosion Hazards

The product is extremely flammable in presence of open flames, sparks, heat, and in presence of oxidizing materials. Autoignition Temperature: 245°C.

TDG Class 3 Flammable liquid. UN 1145

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

SECTION V REACTIVITY DATA CC0580

Chemical Stability	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	If no, under what conditions?
Incompatible with Other products	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Oxidizing materials.
Hazardous Decomposition Products	These products are carbon oxides.		
Reactive under what conditions	No specific information is available.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion, Inhalation.
TLV	TWA: 300 (ppm), 1030 (mg/m ³)
Toxicity for animals	LD50: 29820 mg/kg (oral-rat); LD50: 1297 mg/kg (ipr-mus)
Chronic effects on humans	Target organs: Central nervous system, vascular system, heart, lungs, liver, kidneys.
Acute effects on humans	Inhalation may produce severe irritation of the respiratory tract, gastrointestinal tract.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition.
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas, fumes, vapor or spray. Do not ingest. If ingested, seek immediate medical advice.
Spill or leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Protective Clothing	Safety glasses. Lab coat. Vapor respirator.

SECTION VIII FIRST AID MEASURES

Specific first aid measures	Eye contact: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Seek medical attention. Inhalation: Allow victim to rest in a well ventilated area. Seek immediate medical attention. Ingestion: Have conscious person drink several glasses of water or milk. DO NOT INDUCE VOMITING. Seek immediate medical attention.
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SECTION IX PREPARATION OF THE MSDS

Rev. No.	3	Date	June 12, 2001	Approved	Michael Raszeja
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