



# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** Chlor-Free® Degreaser (bulk)

**Product Number (s):** 03186, 03187, 03188, 03189

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://www.crcindustries.com)

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

## Section 2: Hazards Identification

### Emergency Overview

Appearance & Odor: Clear, water-white liquid, mild solvent odor

**DANGER**

Extremely Flammable. Harmful or Fatal if Swallowed.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

### Potential Health Effects:

**EYE:** May cause mild eye irritation. Symptoms include stinging, tearing and redness.

**SKIN:** Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material through the skin is possible, but it is unlikely to result in harmful effects during safe handling and use.

**INHALATION:** Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually include nose and throat irritation and central nervous system depression (dizziness, drowsiness, weakness, nausea, headache, unconsciousness).

**INGESTION:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting and can result in lung inflammation and other lung injury.

**CHRONIC EFFECTS:** None known

**TARGET ORGANS:** liver, kidney

**Medical Conditions Aggravated by Exposure:** pre-existing skin conditions, lung conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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### **Section 3: Composition/Information on Ingredients**

<b>COMPONENT</b>	<b>CAS NUMBER</b>	<b>% by Wt.</b>
Cyclohexane	110-82-7	70 – 80
Ethanol	64-17-5	8 - 13
Hexane isomers	various	5 – 10
Methanol	67-56-1	< 4
n-Hexane	110-54-3	< 1

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### **Section 4: First Aid Measures**

**Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

**Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

**Ingestion:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down

**Note to Physicians:** This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting

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### **Section 5: Fire-Fighting Measures**

**Flammable Properties:** As defined by OSHA, this product is a Class IB flammable liquid.

Flash Point:	< 0 F (TCC)	Upper Explosive Limit:	8.3
Autoignition Temperature:	500 F	Lower Explosive Limit:	1.3

**Suitable Extinguishing Media:** Class B fire extinguishers, carbon dioxide, dry chemical, regular foam

**Products of Combustion:** oxides of carbon, various hydrocarbons

**Protection of Fire-Fighters:** Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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## Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Remove sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

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## Section 7: Handling and Storage

Handling Procedures: Do not use near sources of ignition including static ignition hazards. Use with proper ventilation. Use proper grounding and bonding procedures when transferring material. Wash hands after use and before contacting food.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep containers closed when not in use.

Aerosol Storage Level: NA

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## Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Cyclohexane	300	NE	100	NE	NE		ppm
Ethanol	1000	NE	1000	NE	NE		ppm
Hexane isomers	500	1000 (v)	500	1000	NE		ppm
Methanol	200	NE	200 (s)	250 (s)	NE		ppm
n-Hexane	500	NE	50 (s)	NE	NE		ppm
N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

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Skin Protection: Use protective gloves such as natural rubber. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

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## Section 9: Physical and Chemical Properties

Physical State: liquid

Color: clear, water-white

Odor: mild solvent

Specific Gravity: 0.767

Initial Boiling Point: 179 F

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: > 1 (butyl acetate = 1)

Solubility: negligible in water

pH: NA

Volatile Organic Compounds: wt %: 100 g/L: 767 lbs./gal: 6.39

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## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Oxides of carbon, various hydrocarbons

Possibility of Hazardous Reactions: No

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## Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

### ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
cyclohexane	LD50	12705 mg/kg	Oral	Rat
cyclohexane	LD50	70 gm/m <sup>3</sup> /2H	Inhalation	Mouse
n-hexane	LD50	3000 mg/kg	Dermal	Rabbit

### CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Other: None

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## **Section 12: Ecological Information**

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: n-hexane - 48 Hr EC50 water flea: 3.87 mg/L  
96 Hr LC50 Lepomis macrochirus: 4.12 mg/L  
Persistence / Degradability: No information available  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: No information available

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## **Section 13: Disposal Considerations**

Disposal: This product is a hazardous waste for the characteristic of ignitability (D001).  
(See 40 CFR Part 261.20 – 261.33)  
Spent liquid should be captured and managed as a hazardous waste. The empty container may be recycled.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

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## **Section 14: Transport Information**

Proper shipping description:

US DOT (ground): **#03186, 03187, 03188:** Flammable liquid, N.O.S. (cyclohexane & ethanol), UN1993, PG II  
**#03189:** Consumer Commodity, ORM-D  
Special Provisions: none

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## **Section 15: Regulatory Information**

### **U.S. Federal**

#### Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

#### Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: cyclohexane (1000 lbs), methanol (5000 lbs),  
n-hexane (5000 lbs)

**Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.**

#### Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard Yes  
Reactive Hazard No

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Release of Pressure	No
Acute Health Hazard	Yes
Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
cyclohexane (< 76%), methanol (< 4%), n-hexane (< 1%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): methanol, n-hexane

**State Regulations**

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: NONE

State Right to Know:

New Jersey: 110-82-7, 64-17-5, 67-56-1, 110-54-3  
Pennsylvania: 110-82-7, 64-17-5, 67-56-1, 110-54-3  
Massachusetts: 110-82-7, 64-17-5, 67-56-1, 110-54-3  
Rhode Island : 110-82-7, 64-17-5, 67-56-1, 110-54-3

**Additional Regulatory Information:** In states with Consumer Product VOC regulations, this product is Not for Retail Sale. It is for manufacturing use only.

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**Section 16: Other Information**

NFPA:	Health: 2	Flammability: 3	Reactivity: 0	
HMIS:	Health: 2	Flammability: 3	Reactivity: 0	PPE: B

Prepared By: Michelle Rudnick  
CRC #: 463C  
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Changes since last revision: Section 15: Additional Regulatory Information revised

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH	American Conference of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		