

**Product Name: Heavy Duty Degreaser**

**Product Number (s): 10450**

**MATERIAL SAFETY DATA SHEET**

Section 1: Product & Company Identification

**Product Name: Heavy Duty Degreaser**  
**Product Number (s): 10450**

Manufactured By: CRC Industries, Inc. (215) 674-4300  
885 Louis Drive, Warminster, PA 18974  
24-Hour Emergency Information: CHEMTREC (800) 424-9300

Section 2: Composition/Information on Ingredients

Component	CAS NUMBER	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
1,1,1 Trichloroethane	71-55-6	350 ppm	350 ppm	NE	85-95
1,3 Dioxolane	646-06-0	NA	NA	NE	1-3
2-Butanol	78-92-2	100 ppm	100 ppm	NE	1-2
Carbon Dioxide	124-38-9	5000 ppm	10000 ppm	NE	3-6
1,2 Butylene Oxide	106-88-7	NE	NE	NE	0-1

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: Colorless liquid, irritating odor at high concentrations.

Potential Health Effects:

Inhalation: Headaches, dizziness anesthesia and unconsciousness.

Eyes: Irritation

Skin: Irritation

Ingestion: NA

Carcinogenicity: OSHA: No IARC: No NTP: No

Chronic Overexposure: Repeated overexposures may cause liver effects in experimental animals.

Medical Conditions Aggravated by Exposure: High levels of vapor (8000+ ppm) may cause cardiac arrhythmias.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Give artificial respiration if necessary.

Eyes: Flush with large amounts of water for 15 minutes.

Skin: Remove contaminated clothing and wash area with soap and water.

Ingestion: Call a physician. Do not induce vomiting.

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**Section 5: Fire-Fighting Measures**

Flashpoint: None Method: TCC, COC, TOC LEL: 7.5 UEL: 12.5  
Extinguishing Media: Water fog  
Hazardous Combustion Products: Thermal – hydrogen chloride, chlorine, phosgene  
Fire-fighting Instructions: Remove containers from fire area if possible. Use self-contained breathing apparatus for fire fighting. Aerosol cans may explode if heated above 120°F.

NFPA: Health: 2 Flammability: 1 Reactivity: 0  
HMIS: Health: 2 Flammability: 1 Reactivity: 0 PPE: B

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**Section 6: Accidental Release Measures**

Spill/Leak Procedures: Usually not a problem with aerosols. Area should be ventilated and absorbent used to pick up excess material. All used and unused product should be disposed of in accordance with federal, state and local regulations.

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**Section 7: Handling and Storage**

Handling Procedures: Store in a cool, dry area. Aerosol cans must be maintained below 120°F to prevent cans from exploding.

Aerosol Level: I

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**Section 8: Exposure Controls/Personal Protection**

Engineering Controls: Adequate to prevent accumulation of vapors. Use mechanical means if necessary to maintain levels below the exposure limits. If working in a confined space, follow applicable OSHA regulations.

Respiratory: Use NIOSH/MSHA compliant respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.

Protective Clothing/Equipment: Wear chemically protective gloves and safety glasses. Use a splash apron and boots if splashing occurs.

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**Section 9: Physical & Chemical Properties**

Physical State:	Liquid	Appearance & Odor:	Colorless liquid, irritating odor at high concentrations
Specific Gravity:	1.293@70°F	Boiling Point:	164°F
Freezing Point:	ND	Vapor Pressure:	100 mm @ 20 °C
Evaporation Rate:	fast	Vapor Density (air = 1)	4.55
pH:	NA	Solubility:	Slight solubility in water – good solvent for many organic materials
Volatile Organic Compounds %:	0	g/L: 0	lbs./gal: 0

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**Section 10: Stability and Reactivity**

Stability: Stable Hazardous Polymerization: No

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Chemical Incompatibilities: Strong oxidizers.  
Materials to Avoid: Avoid storing in aluminum containers or contact with aluminum powder or zinc powder.  
Hazardous Decomposition Products: None  
Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

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Section 12: Ecological Information

Ecotoxicity: No data available.  
Environmental Fate: No data available for biodegradation.

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Section 13: Disposal Considerations

Disposal: This material if discarded may be hazardous waste under U.S. EPA RCRA regulations. All disposal activities must comply with federal, state and local regulations. Contact your local or state environmental agency for specific rules. Do not dump into sewers, on the ground or into any body of water.

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Section 14: Transportation Information

Shipping Name: Consumer Commodity  
Hazard Class: ORM-D UN Number: NA Packing Group: NA  
Label: NA Placard: NA  
Special Provisions: NA

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Section 15: Regulatory Information

TSCA: All components are either listed under TSCA or are exempt.  
SARA Title III: Section 311/312: Section 313\*: 1,1,1 Trichloroethane,  
2-Butanol

CERCLA/Superfund (RQ):  
Extremely Hazardous Substances: No  
California Prop 65:

\* See section 2 for percentage

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Section 16: Additional Information

Prepared By: Adam M. Selisker Date: March 13, 2002  
Technical Information: (800) 521-3168 CRC #: 509

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
LEL:	Lower Explosive Limit	g/L:	grams per Liter
UEL:	Upper Explosive Limit	lbs./gal:	pounds per gallon
PPE:	Personal Protection Equipment	RQ:	Reportable Quantity
COC:	Cleveland Closed Cup	TOC:	