



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: HydroForce® Industrial Strength Degreaser (bulk)

Product Number (s): 14417

Product Use: General Purpose Degreaser

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: May Cause Burns to Skin and Eyes. Harmful if Swallowed or Inhaled.

Appearance & Odor: Red liquid, pleasant odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause moderate to severe irritation including redness and burning depending on the amount and duration of contact.

SKIN: May cause moderate to severe skin irritation. Prolonged or repeated contact may cause burns to skin.

INHALATION: Inhalation of a small amount may cause nose and throat irritation. Prolonged exposure may cause burns to respiratory tract.

INGESTION: Ingestion of a small amount may cause mild to moderate irritation of the gastrointestinal tract. Ingestion of a larger amount may cause major irritation to the gastrointestinal tract.

CHRONIC EFFECTS: None known

TARGET ORGANS: Unknown

Medical Conditions Aggravated by Exposure: pre-existing skin or eye disorders

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

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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.

Section 7: Handling and Storage

Handling Procedures: Use with adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. Keep containers closed when not in use. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Keep out of reach of children.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Water	NE	NE	NE	NE	NE		
Tripropylene glycol methyl ether	NE	NE	NE	NE	NE		
Sodium metasilicate	NE	NE	NE	NE	NE		
Dipropylene glycol monomethyl ether	100	NE	100	150 (s)	NE		ppm
Potassium hydroxide	2 (c)(v)	NE	2 (c)	NE	NE		mg/m ³
Detergent blend	NE	NE	NE	NE	NE		
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

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. Air monitoring is needed to determine actual employee exposure levels. 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.

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

Section 9: Physical and Chemical Properties

Physical State: liquid

Color: red

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Odor:	pleasant					
Odor Threshold:	ND					
Specific Gravity:	1.078					
Initial Boiling Point:	~212°F / 100°C					
Freezing Point:	~ 32°F / 0°C					
Vapor Pressure:	ND					
Vapor Density:	ND (air = 1)					
Evaporation Rate:	slow					
Solubility:	soluble in water					
Coefficient of water/oil distribution:	ND					
pH:	13.05					
Volatile Organic Compounds:	(concentrate)	<u>wt %:</u>	3.96	<u>g/L:</u>	42.7	<u>lbs./gal:</u> 0.36
	(at dilution)	<u>wt %:</u>	0.4	<u>g/L:</u>	4.27	<u>lbs./gal:</u> 0.04

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Keep away from heat and direct sunlight.

Incompatible Materials: Strong oxidizers, strong acids

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

Possibility of Hazardous Reactions: No

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 Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Water	> 90 mL/kg	No data	No data
Tripropylene glycol methyl ether	3200 mg/kg	> 20 mL/kg	No data
Sodium metasilicate	1153 mg/kg	No data	No data
Dipropylene glycol monomethyl ether	5.5 mL/kg	10 mL/kg	No data
Potassium hydroxide	273 mg/kg	No data	No data
Detergent blend	No data	No data	No data

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Water	No	No	No	No	No
Tripropylene glycol methyl ether	No	No	No	E (mild)	Unknown
Sodium metasilicate	No	No	No	E (severe) / S (severe) / R (severe)	Unknown
Dipropylene glycol monomethyl ether	No	No	No	E (mild) / R (mild)	No
Potassium hydroxide	No	No	No	E (severe) / S (moderate) / R (moderate)	No
Detergent blend	No	No	No	E (moderate) / S (moderate)	Unknown

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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	No
Reactive Hazard	No
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:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration (OSHA):

This product is regulated under the Hazard Communication Standard.

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: D1B, E

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

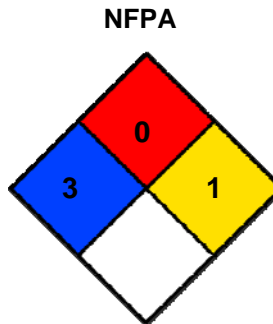
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	3
Flammability:	0
Reactivity:	1
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
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Changes since last revision: Section 15 – Regulatory Information

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. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists	NA: Not Applicable
CAS: Chemical Abstract Service	ND: Not Determined
CFR: Code of Federal Regulations	NIOSH: National Institute of Occupational Safety & Health
DOT: Department of Transportation	NFPA: National Fire Protection Association
DSL: Domestic Substance List	NTP: National Toxicology Program
g/L: grams per Liter	OSHA: Occupational Safety and Health Administration
HMIS: Hazardous Materials Identification System	PMCC: Pensky-Martens Closed Cup
IARC: International Agency for Research on Cancer	PPE: Personal Protection Equipment
IATA: International Air Transport Association	ppm: Parts per Million
ICAO: International Civil Aviation Organization	RoHS: Restriction of Hazardous Substances
IMDG: International Maritime Dangerous Goods	STEL: Short Term Exposure Limit
IMO: International Maritime Organization	TCC: Tag Closed Cup
lbs./gal: pounds per gallon	TWA: Time Weighted Average
LC: Lethal Concentration	WHMIS: Workplace Hazardous Materials Information System
LD: Lethal Dose	