Section 1: Product & Company Identification

Product Name:

HydroForce® Industrial Strength Degreaser (bulk)

Product Number (s):

14415 - 14418, 14420, 74415

Product Use:

General Purpose Degreaser

Manufacturer / Supplier Contact Information:

In United States:

In Canada:

CRC Industries, Inc.

CRC Canada Co.

885 Louis Drive

2-1246 Lorimar Drive

Warminster, PA 18974

Mississauga, Ontario L5S 1R2

www.crcindustries.com

1-215-674-4300(General)

www.crc-canada.ca

San Luís Potosí, SLP CP 78394

(800) 521-3168 (Technical)

1-905-670-2291

www.crc-mexico.com 52-444-824-1666

Colonia Orquidea

CRC Industries Mexico

Av. Benito Juárez 4055 G

In Mexico:

(800) 272-4620 (Customer Service)

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

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.

Product Number (s): 14415 -14418, 14420, 74415

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Water	7732-18-5	70 - 80
Tripropylene glycol methyl ether	25498-49-1	3 - 8
Sodium metasilicate	6834-92-0	2 - 5
Dipropylene glycol monomethyl ether	34590-94-8	2 - 5
Potassium hydroxide	1310-58-3	1 - 3
Detergent blend	proprietary	5 - 10

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 or if chemical burns are present. 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:

Do not induce vomiting. Give 2-3 glasses of water. Call a physician immediately.

Note to Physicians:

Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties:

This product is nonflammable.

Flash Point: None

Upper Explosive Limit:

NA

Autoignition Temperature: None

Lower Explosive Limit:

NA

Fire and Explosion Data:

Suitable Extinguishing Media:

Use extinguishing agents appropriate for surrounding fire.

Products of Combustion:

None

Explosion Hazards:

Containers, when exposed to heat from fire, may build pressure and rupture.

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.

Section 6: Accidental Release Measures

Personal Precautions:

Use personal protection recommended in Section 8. Avoid skin and eye contact.

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: Dike area to contain spill. Ventilate the area with fresh air. If in confined space

Product Number (s): 14415 -14418, 14420, 74415

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:

	OS	SHA	AC	GIH	0	THER	
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
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:

Color: red

liquid

Product Number (s): 14415 -14418, 14420, 74415

Odor: pleasant

Odor Threshold: Specific Gravity:

ND 1.078 ~212F

Initial Boiling Point: Freezing Point: Vapor Pressure:

~ 32 ND

Vapor Density: **Evaporation Rate:**

13.05

ND slow (air = 1)

wt %: 3.96

Solubility:

pH:

soluble in water

Coefficient of water/oil distribution:

Volatile Organic Compounds:

ND

<u>g/L</u>:

42.7

lbs./gal:

0.36

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:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
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:

	OSHA	IARC	NTP		
Component	Carcinogen	Carcinogen	Carcinogen	<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) /	Unknown
				S (severe) /	
				R (severe)	
Dipropylene glycol monomethyl ether	No	No	No	E (mild) / R (mild)	No
Potassium hydroxide	No	No	No	E (severe) /	No
•				S (moderate) /	
				R (moderate	
Detergent blend	No	No	No	E (moderate) /	Unknown
S				S (moderate)	

E – Eye S – Skin R - Respiratory				
	E – Eye	S – Skin	R - Respiratory	_

Product Number (s): 14415 -14418, 14420, 74415

Reproductive Toxicity: No information available No information available

Section 12: Ecological Information

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

Ecotoxicity:

Tripropylene glycol methyl ether 96 Hr LC50, Fathead minnow: 11,619 mg/L 48 Hr LC50, daphnia magna: > 10,000 mg/L

Sodium metasilicate 96 Hr EC50 Daphnia magna: 216 mg/L

Persistence / Degradability:

Biodegradability according to OECD 301B = 48.8%.

Bioaccumulation / Accumulation: Mobility in Environment:

No information available No information available

Section 13: Disposal Considerations

Waste Classification: This product is a RCRA hazardous waste for the characteristic of corrosivity with a waste code

of D002. (See 40 CFR Part 261.20 - 261.33)

Dilutions of this product or mixtures with other products should be tested for hazardous waste

classification. Empty containers may be recycled.

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

Section 14: Transport Information

US DOT (ground): 14415 & 74415: Consumer Commodity, ORM-D

14416, 14417, 14418, 14420: Corrosive Liquids, N.O.S. (Potassium hydroxide & Sodium

metasilicate), UN1760, 8, PGII

ICAO/IATA (air): ALL: Corrosive Liquids, N.O.S. (Potassium hydroxide & Sodium metasilicate), UN1760, 8,

PGII

IMO/IMDG (water): 14415 & 74415: Corrosive Liquids, N.O.S. (Potassium hydroxide & Sodium metasilicate),

UN1760, 8, PGII, Limited Quantity

14416, 14417, 14418, 14420: Corrosive Liquids, N.O.S. (Potassium hydroxide & Sodium

metasilicate), UN1760, 8, PGII

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

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):

Product Number (s): 14415 -14418, 14420, 74415

Reportable Quantities (RQ's) exist for the following ingredients: Potassium hydroxide (1000 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

No

Reactive Hazard

No

Release of Pressure

No

Acute Health Hazard

Chronic Health Hazard

Yes

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

U.S. 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

Consumer Products VOC Regulations:

In states with Consumer Products VOC regulations, this product is compliant as

a General Purpose Degreaser.

State Right to Know:

New Jersey:

34590-94-8, 1310-58-3

Pennsylvania:

34590-94-8, 1310-58-3

Massachusetts:

34590-94-8, 1310-58-3

Rhode Island:

34590-94-8, 1310-58-3

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:

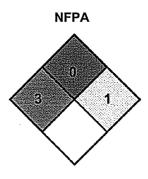
None

Product Number (s): 14415 -14418, 14420, 74415

Section 16: Other Information

HMIS® (I	1)
Health:	3
Flammability:	0
Reactivity:	1
PPE:	В

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



Prepared By:

Michelle Rudnick

CRC #:

433E

Revision Date:

12/01/2008

Changes since last revision:

MSDS reformatted to meet the requirements of the Canadian Controlled Products

Regulations.

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

CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List

g/L: grams per Liter

HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods

IMO: International Maritime Dangerous G

lbs./gal: pounds per gallon LC: Lethal Concentration

LD: Lethal Dose

NA: Not Applicable ND: Not Determined

NIOSH: National Institute of Occupational Safety & Health

NFPA: National Fire Protection Association NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PMCC: Pensky-Martens Closed Cup PPE: Personal Protection Equipment

ppm: Parts per Million

RoHS: Restriction of Hazardous Substances

STEL: Short Term Exposure Limit

TCC: Tag Closed Cup
TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information

System