



# MATERIAL SAFETY DATA SHEET

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## Section 1: Product & Company Identification

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**Product Name:** HydroForce® All-Purpose Degreaser (bulk)

**Product Number (s):** 14407 – 14410, 14421, 14423, 74407

**Product Use:** General purpose degreaser

### Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

[www.crcindustries.com](http://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](http://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](http://www.crc-mexico.com)

52-444-824-1666

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

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## Section 2: Hazards Identification

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### Emergency Overview

**CAUTION:** May Cause Eye Irritation.

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

Appearance & Odor: Clear purple liquid, pleasant odor

### Potential Health Effects:

**ACUTE EFFECTS:**

**EYE:** May cause mild irritation including redness and burning.

**SKIN:** No adverse effects expected for a single exposure. Prolonged or repeated contact can cause irritation and defatting of the skin.

**INHALATION:** Inhalation of a small amount is not expected to cause health effects. Prolonged exposure may cause dizziness or throat irritation.

**INGESTION:** Ingestion of a small amount is not expected to cause health effects. Ingestion of a larger amount may cause irritation to gastrointestinal tract.

**CHRONIC EFFECTS:** None known

**TARGET ORGANS:** None known

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

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<b>COMPONENT</b>	<b>CAS NUMBER</b>	<b>% by Wt.</b>
Water	7732-18-5	80 - 90
Trisodium citrate dihydrate	6132-04-3	3 - 8
Dipropylene glycol monomethyl ether	34590-94-8	2 - 5
Detergent blend	proprietary	8 - 12

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

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**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:** Do not induce vomiting. Call a physician for advice.

*Note to Physicians:* Treat symptomatically.

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

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**Flammable Properties:** This product is nonflammable.

Flash Point: None (TCC)  
Autoignition Temperature: None

Upper Explosive Limit: None  
Lower Explosive Limit: None

**Fire and Explosion Data:**

**Suitable Extinguishing Media:** Use extinguishing agents appropriate for surrounding fire.

**Products of Combustion:** If heated, product may produce oxides of carbon.

**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.

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### **Section 6: Accidental Release Measures**

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**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:** 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

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Handling Procedures: Avoid contact with skin and eyes. Properly clean any spilled residue with a wet cloth. Wash hands after use and before handling food items. 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

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## Section 8: Exposure Controls/Personal Protection

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### Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Water	NE	NE	NE	NE	NE		
Trisodium citrate dihydrate	NE	NE	NE	NE	NE		
Dipropylene glycol monomethyl ether	100	NE	100	150 (s)	NE		ppm
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.

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## Section 9: Physical and Chemical Properties

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Physical State: liquid  
Color: purple  
Odor: pleasant  
Odor Threshold: ND  
Specific Gravity: 1.038  
Initial Boiling Point: ~ 212°F  
Freezing Point: ~ 30°F  
Vapor Pressure: ND

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Vapor Density: ND (air = 1)  
Evaporation Rate: slow  
Solubility: soluble in water  
Coefficient of water/oil distribution: ND  
pH: 9.5  
Volatile Organic Compounds: wt %: 4.0 g/L: 41.5 lbs./gal: 0.35

**Section 10: Stability and Reactivity**

Stability: Stable  
Conditions to Avoid: Keep away from heat and direct sunlight.  
Incompatible Materials: Strong oxidizers  
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
Trisodium citrate dihydrate	No data	No data	No data
Dipropylene glycol monomethyl ether	5.5 mL/kg	10 mL/kg	No data
Detergent blend	No data	No data	No data

**Chronic Toxicity:**

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant	Sensitizer
Water	No	No	No	No	No
Trisodium citrate dihydrate	No	No	No	E (mild)	Unknown
Dipropylene glycol monomethyl ether	No	No	No	E (mild) / R (mild)	No
Detergent blend	No	No	No	E (severe) / S (mild)	Unknown

E – Eye      S – Skin      R - Respiratory

**Reproductive Toxicity:** Detergent Blend: Non-mutagenic for bacteria and/or yeast  
**Teratogenicity:** No information available  
**Mutagenicity:** No information available  
**Synergistic Effects:** 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: Trisodium citrate dihydrate - 48 Hr EC50, Daphnia magna: 5600 mg/L

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Detergent blend – 72 Hr EC50 Algae: 0.5 mg/L

Persistence / Degradability: Readily biodegradable  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: No information available

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## Section 13: Disposal Considerations

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**Waste Classification:** This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)  
Wastes should be collected and properly disposed. Do not dump into bodies of water or on the ground. 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.

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## Section 14: Transport Information

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US DOT (ground): Not Regulated

ICAO/IATA (air): Not Regulated

IMO/IMDG (water): Not Regulated

Special Provisions: None

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## Section 15: Regulatory Information

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### 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):

Reportable Quantities (RQ's) exist for the following ingredients: None

**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	No
	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

### U.S. State Regulations:

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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  
Pennsylvania:     34590-94-8  
Massachusetts:   34590-94-8  
Rhode Island :    34590-94-8

**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:   D2B

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

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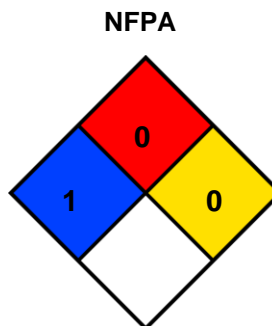
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## **Section 16: Other Information**

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<b>HMIS® (II)</b>	
<b>Health:</b>	<b>1</b>
<b>Flammability:</b>	<b>0</b>
<b>Reactivity:</b>	<b>0</b>
<b>PPE:</b>	<b>B</b>



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

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CRC #:         4361  
Revision Date:  10/21/2011

Changes since last revision:   Revision date

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

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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	