Section 1: Product & Company Identification

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
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 Luis 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

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.
Section 3: Composition/Information on Ingredients

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

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

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is nonflammable.

<table>
<thead>
<tr>
<th>Flash Point: None (TCC)</th>
<th>Upper Explosive Limit: None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition Temperature: None</td>
<td>Lower Explosive Limit: None</td>
</tr>
</tbody>
</table>

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.

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: 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.
Section 7: Handling and Storage

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

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Water</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Trisodium citrate dihydrate</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>100</td>
<td>NE</td>
<td>100</td>
</tr>
<tr>
<td>Detergent blend</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

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: purple
Odor: pleasant
Odor Threshold: ND
Specific Gravity: 1.038
Initial Boiling Point: ~ 212°F
Freezing Point: ~ 30°F
Product Name: HydroForce® All Purpose Degreaser (bulk)
Product Number(s): 14407 – 14410, 14421, 14423, 74407

Vapor Pressure: ND
Vapor Density: ND (air = 1)
Evaporation Rate: slow
Solubility: soluble in water
Coefficient of water/oil distribution: ND
pH: 9.5

Volatile Organic Compounds: (concentrate) wt %: 4.0 g/L: 41.5 lbs./gal: 0.35
(at dilution) wt %: 0.4 g/L: 4.15 lbs./gal: 0.04

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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50 (rat) &gt; 90 mL/kg</th>
<th>Dermal LD50 (rabbit)</th>
<th>Inhalation LC50 (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Trisodium citrate dihydrate</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>5.5 mL/kg</td>
<td>10 mL/kg</td>
<td>No data</td>
</tr>
<tr>
<td>Detergent blend</td>
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</table>

Chronic Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA Carcinogen</th>
<th>IARC Carcinogen</th>
<th>NTP Carcinogen</th>
<th>Irritant</th>
<th>Sensitizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Trisodium citrate dihydrate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>E (mild)</td>
<td>Unknown</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>E (mild) / R (mild)</td>
<td>No</td>
</tr>
<tr>
<td>Detergent blend</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>E (severe) / S (mild)</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

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  
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

Section 13: Disposal Considerations

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.

Section 14: Transport Information

US DOT (ground): Not Regulated
ICAO/IATA (air): Not Regulated
IMO/IMDG (water): Not Regulated
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):
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
Product Name: HydroForce® All Purpose Degreaser (bulk)
Product Number (s): 14407 – 14410, 14421, 14423, 74407

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: Product # 14407 (32oz. bottle) is not compliant for sale in California. In other states with Consumer Products VOC regulations, # 14407 is compliant as a general purpose degreaser. All other products are compliant as general purpose degreasers in all states.

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:


Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)

| Health: | 1 |
| Flammability: | 0 |
| Reactivity: | 0 |
| PPE: | B |

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

Prepared By: Michelle Rudnick
CRC #: 436I
Revision Date: 01/02/2013

Changes since last revision: Section 9: Volatile Organic Compounds
Section 15: Consumer Products VOC 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.

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