Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: **HydroForce® All-Purpose Cleaner/Degreaser** (Bulk)

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

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Pale amber liquid, pleasant odor

CAUTION
May Cause Eye Irritation.

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

Potential Health 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 as well as more severe health effects including blood disorders.
CHRONIC EFFECTS:	None known
TARGET ORGANS:	By ingestion: Blood, liver, kidneys.

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

COMPONENT	CAS NUMBER	% by Wt.
Water	7732-18-5	70 - 80
2-Butoxyethanol	111-76-2	7 - 9
Dioctyl sodium sulfosuccinate	577-11-7	2 - 5
Detergent blend	proprietary	8 - 12

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.

Note to Physicians: This product contains 2-Butoxyethanol which, if ingested in significant quantities, may result in red blood cell hemolysis.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is nonflammable.

Flash Point:	None	Upper Explosive Limit:	ND
Autoignition Temperature:	None	Lower Explosive Limit:	ND

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

Products of Combustion: None

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: Use with adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. Do not expose aerosol containers to heat or flame.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep out of reach of children.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Water	NE	NE	NE	NE	NE		
2-Butoxyethanol	50 (s)	NE	20	NE	NE		ppm
Dioctyl sodium sulfosuccinate	NE	NE	NE	NE	NE		
Detergent blend	NE	NE	NE	NE	NE		
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas 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: pale amber
Odor: pleasant

Specific Gravity: 0.9992
Initial Boiling Point: ~ 212 F
Freezing Point: ~ 30 F
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: < 1 (ether = 1)
Solubility: soluble in water
pH: 10.2 – 10.5
Volatile Organic Compounds: wt %: 10.1 g/L: 101 lbs./gal: 0.84

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 EFFECTS

Component	Test	Result	Route	Species
2-Butoxyethanol	LC50	450 ppm/4H	Inhalation	Rat
2-Butoxyethanol	LD50	470 mg/kg	Oral	Rat
2-Butoxyethanol	LD50	220 mg/kg	Dermal	Rabbit

CHRONIC EFFECTS

Carcinogenicity:

	Component	Result
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: No information

Other: No information

Section 12: Ecological Information

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

Ecotoxicity: 2-Butoxyethanol 96 Hr LC50, Bluegill sunfish: 1490 mg/L
24 Hr LC50, daphnia: 1720 mg/L

Persistence / Degradability: Biodegradability according to OECD 301B = 50.5%.

Bioaccumulation / Accumulation: No information

Mobility in Environment: No information

Section 13: Disposal Considerations

Disposal: This material 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.

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

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Not Regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

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	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:
2-Butoxyethanol (glycol ethers category): 8%

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

NONE

State Right to Know:

New Jersey:	111-76-2
Pennsylvania:	111-76-2
Massachusetts:	111-76-2
Rhode Island :	111-76-2

Additional Regulatory Information: This product is labeled Not For Retail Sale in accordance with state Consumer Product VOC Regulations.

Section 16: Other Information

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

Prepared By: Michelle Rudnick
CRC #: 436G
Revision Date: 06/09/2006

Changes since last revision: Added part #14423

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.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH	American Conference of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		