

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: HydroForce® Glass Cleaner - Aerosol
Product Number (s): 14412

Manufactured By: CRC Industries, Inc. (215) 674-4300
885 Louis Drive, Warminster, PA 18974
24-Hour Emergency Information: CHEMTREC (800) 424-9300

Section 2: Composition/Information on Ingredients

Component	CAS NUMBER	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
Water	7732-18-5	NE	NE	NE	85-95
2-Butoxy Ethanol	111-76-2	25 ppm	25 ppm	NE	< 10
Hydrocarbon Propellant	68476-86-8	NE	NE	NE	4-8
Ammonia (aqueous)	1336-21-6	NE	NE	NE	< 1

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: Clear liquid, ammonia odor.

Caution: May cause eye irritation. Contents Under Pressure.

Potential Health Effects:

Inhalation: Headache, mucous membrane irritation.
Eyes: Burning
Skin: Irritation
Ingestion: Gastrointestinal discomfort

Carcinogenicity: OSHA: No IARC: No NTP: No
Chronic Overexposure: Dermatitis
Medical Conditions Aggravated by Exposure: NA

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Give artificial respiration if necessary.
Eyes: Flush with large amounts of water for 15 minutes.
Skin: Remove contaminated clothing and wash area with soap and water.
Ingestion: Induce vomiting. Call a physician immediately.

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Section 5: Fire-Fighting Measures

Flashpoint:	None	Method:	TCC (propellant only)	LEL:	1.8	UEL:	9.5
Extinguishing Media:			Dry chemical				
Hazardous Combustion Products:			Thermal – NH3, carbon monoxide				
Fire-fighting Instructions:			Remove containers from fire area if possible. Use self-contained breathing apparatus for fire fighting. Aerosol cans may explode if heated above 120°F.				
NFPA:	Health:	1	Flammability:	0	Reactivity:	0	
HMIS:	Health:	1	Flammability:	0	Reactivity:	0	PPE: B

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Section 6: Accidental Release Measures

Spill/Leak Procedures: Usually not a problem with aerosols. Area should be ventilated. Absorbent should be used to pick up excess material. All used and unused product should be disposed of in accordance with federal, state and local regulations.

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Section 7: Handling and Storage

Handling Procedures: Store in a cool, dry area. Aerosol cans must be maintained below 120°F to prevent cans from exploding. NFPA rating of 4 is due to the propellant only.

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Section 8: Exposure Controls/Personal Protection

Engineering Controls: Adequate to prevent accumulation of vapors. Use mechanical means if necessary to maintain levels below the exposure limits. If working in a confined space, follow applicable OSHA regulations.

Respiratory: Use NIOSH/MSHA compliant respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.

Protective Clothing/Equipment: Wear chemically protective gloves and safety glasses. Use a splash apron and boots if splashing occurs.

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Section 9: Physical & Chemical Properties

Physical State:	Liquid	Appearance & Odor:	Clear liquid, ammonia odor		
Specific Gravity:	0.9891	Boiling Point:	212°F		
Freezing Point:	30 °F	Vapor Pressure:	ND		
Evaporation Rate:	like water	Vapor Density (air = 1)	water		
pH:	9.7	Solubility:	Soluble in water.		
Volatile Organic Compounds:%:	11.79	g/L:	115	lbs./gal:	0.95

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Section 10: Stability and Reactivity

Stability: Stable Hazardous Polymerization: No
Chemical Incompatibilities: Strong oxidizers.
Conditions to Avoid: None
Hazardous Decomposition Products: None

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Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

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Section 12: Ecological Information

Ecotoxicity: No data available.
Environmental Fate: No data available for biodegradation.

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Section 13: Disposal Considerations

Disposal: This material if discarded may be hazardous waste under U.S. EPA RCRA regulations. All disposal activities must comply with federal, state and local regulations. Contact your local or state environmental agency for specific rules.

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Section 14: Transportation Information

Shipping Name: Consumer Commodity
Hazard Class: ORM-D UN Number: NA Packing Group: NA
Label: NA Placard: NA
Special Provisions: NA

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Section 15: Regulatory Information

TSCA: All components are either listed under TSCA or are exempt.
SARA Title III: Section 311/312: Acute, Pressure
Section 313*: None
CERCLA/Superfund (RQ): NA
Extremely Hazardous Substances: No
California Prop 65: No

* See section 2 for percentage

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Section 16: Additional Information

Prepared By: Michelle Milburn Date: November 6, 2003

Technical Information: (800) 521-3168 CRC #: 411

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
ppm: Parts per Million
TCC: Tag Closed Cup
LEL: Lower Explosive Limit
UEL: Upper Explosive Limit
PPE: Personal Protection Equipment
COC: Cleveland Closed Cup

NA: Not Applicable
ND: Not Determined
NE: Not Established
g/L: grams per Liter
lbs./gal: pounds per gallon
RQ: Reportable Quantity