

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: STEIN'S GLASS CLEANER HD **PRODUCT I.D. NUMBER (PIN):** 1993
PRODUCT NUMBER: NA **WHITES CLASS:** 02; 02B
PRODUCT USE: Glass cleaner **DOT HAZARD CLASS:** Flammable Liquid

COMPANY:
 Stein's Inc
 PO Box 248
 Moorhead MN 56561

EMERGENCY PHONE: 1-800-535-5053

H.M.I.S.		
2	HEALTH	HAZARD RATING 4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
3	FIRE	
0	REACTIVITY	
B	MAXIMUM PERSONAL PROTECTION	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. - Not Applicable N.E. = Not Established N.D. = Not Determined

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
Isopropanol	67-63-0	40-70	400ppm	400ppm	5.8g/kg	N.D.
Water	7732-18-5	30-60	N.E.	N.E.	N.D.	N.D.
Ammonia	7664-41-7	< 5	50 ppm	25 ppm	350mg/kg	N.D.

This mixture does not contain components which are 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.

SECTION 3 - PHYSICAL DATA

Color: Colorless	Boiling Point: 79.4-100°C (175-212°F)	Vapor Pressure: <68 mm of Hg	pH: 10.5 - 11.5
Odor: Pungent	Freezing Point: N.E.	Vapor Density (Air=1): 4.24	1% pH: N.E.
Physical State: Liquid	Water/Oil Distribution: N.E.	Evaporation Rate (Water=1): N.E.	Specific Gravity: 0.866 gm/ml
Solubility in Water: Complete	Odor Threshold: N.E.	VOC Content: N.E.	Weight per Gallon: 7.22 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: 78°F 25.6°C (C.C.)	Autoignition Temperature: N.A.	Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam.	
Flammable Limits: Flammable Liquid.	LEL: N.E. UEL: N.E.	Special Fire Fighting Procedures: Use proper protective equipment.	
Hazardous Combustion Products: N.A.		Unusual Fire and Explosion Hazards: Avoid sources of ignition.	

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable.	Hazardous decomposition of By-Products: Carbon monoxide, Carbon dioxide
Incompatibility (Materials to Avoid): Oxides, acids and halogens	Hazardous Polymerization: Will not occur.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion, Inhalation, Skin contact.	Toxicologically Synergistic Products: None known.
Sensitization: No.	Medical Conditions Aggravated by Exposure: Pre-existing skin disorders.
EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):	
Eyes: May cause irritation and possible corneal injury.	Carcinogenic Effects: NO carcinogenic effect.
Skin: May cause mild irritation. May be absorbed through skin with prolonged or repeated contact.	Mutagenic Effects: NO mutagenic effect.
Ingestion: May cause gastrointestinal irritation, nausea, diarrhea.	Teratogenic Effects: NO teratogenic effect.
Inhalation: Prolonged inhalation of excessive concentrations may cause nausea, headache, and mild narcosis.	Reproductive Toxicity: NO reproductive toxicity effect.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate ventilation.	Ventilation: Local Exhaust: Acceptable Mechanical: Recommended
Protective Gloves: Rubber/Neoprene.	Eye Protection: Safety glasses if splashing is likely.
Protective Clothing and Equipment: As needed to prevent wetting of skin.	Work and Hygienic Practices: Wash thoroughly after handling.
Storage Requirements: Store in cool, dry area away from sources of ignition. Empty container retains vapor and product residue; do not puncture or weld on or near container.	Other Requirements: Keep out of reach of children.
Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Ventilate area and remove all sources of ignition. Collect on inert material (sand, clay, etc.) and place into closed container for proper disposal. Do not allow runoff into public waterways.	
Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.	

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:

Eyes: Flush with a large amount of water for 15 minutes holding eyelids open. Remove contact lenses.

Skin: Flush contaminated skin with plenty of water. Remove contaminated clothing and footwear.

Ingestion: Give large glass of water or milk. Seek medical attention.

Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention.

Note to Physician: No additional information.

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department Phone: 218-233-2727 Date of Preparation: October, 2003