

## MATERIAL SAFETY DATA SHEET



5579 Spellmire Dr.  
Cincinnati, OH 45237  
(800) 291-1057

**EMERGENCY CONTACT: CHEMTREC (800-424-9300)**

**TRADE NAME: HCS Crystal Clear**  
**CHEMICAL FAMILY: Glass Cleaning Compound**

**MSDS No. HCS-Crys-1**  
Preparation Date: 12/01/06

### NFPA HAZARD SUMMARY (0-4 Scale)

Health: 1                      Flammability: 1                      Reactivity: 0                      Special: N/A

### HAZARDOUS INGREDIENTS

The materials listed in this data sheet are classified as **HAZARDOUS** in accordance with the definition set forth by the Occupational Safety and Health Administration in 29 CFR 1910.1200.

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>CAS</u>	<u>Exposure Limits</u>	<u>LD<sub>50</sub></u>	<u>%</u>
Ammonium Hydroxide	Aqua Ammonia	1336-21-6	25ppm (TWA)		<0.5

### EMERGENCY FIRST AID PROCEDURES

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation persists, or if contact has been prolonged, obtain medical attention.

**EYES:** Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Do not allow victim to rub eyes. Seek medical attention.

**INHALATION:** Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Have person sip a glass of water or milk if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

### FIRE AND EXPLOSION DATA

<u>FLASHPOINT</u>	<u>FLAMMABLE LIMITS</u>		<u>AUTO IGNITION TEMP</u>
	<u>(LEL)</u>	<u>(UEL)</u>	
>200°F	N/A	N/A	N/A

**EXTINGUISHING AGENTS:** Dry chemical, foam, carbon dioxide, water spray or any other agent suitable for surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

### REACTIVITY DATA

<u>STABILITY</u>	<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>	<u>MATERIALS TO AVOID</u>
Stable	Ammonia, and oxides of carbon and sulfur	None

### HAZARDOUS POLYMERIZATION

Will not occur.

## PHYSICAL DATA

<u>APPEARANCE &amp; ODOR</u> Clear blue liquid with ammonia odor.	<u>VAPOR DENSITY (AIR=1)</u> N/A	<u>BOILING POINT</u> >100°F	<u>SOLUBILITY IN WATER</u> Soluble
<u>SPECIFIC GRAVITY</u> 1.02	<u>EVAPORATION RATE (N-Butyl Acetate=1)</u> N/A	<u>VAPOR PRESSURE (mmHg)</u> N/A	<u>PERCENT VOLATILE BY VOLUME</u> N/A

## CHEMICALS LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN

OSHA: NO IARC MONOGRAPHS: NO NTP: NO

## HEALTH HAZARD DATA

SKIN: May cause irritation. Prolonged or repeated exposure can cause drying, defatting, and dermatitis.  
EYES: May cause mild to moderate irritation.  
INHALATION: Mists and vapors may irritate the throat and respiratory tract.  
INGESTION: May cause nausea, vomiting, and gastrointestinal irritation. May be harmful if swallowed in large quantities.

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

None are known.

## PERSONAL PROTECTION DATA

<u>RESPIRATORY PROTECTION</u> None generally required	<u>EYE PROTECTION</u> Chemical goggles	<u>PROTECTIVE GLOVES</u> Rubber or neoprene	<u>OTHER PROTECTIVE EQUIPMENT</u> None
<u>VENTILATION:</u>	<u>Mechanical</u> None	<u>Local</u> General ventilation	<u>Special</u> None

## SPECIAL PRECAUTIONS

Store in a cool area away from oxidizing agents, acids and bases. Keep from freezing.

## SPILL OR LEAK PROCEDURES

Isolate spill or leak area immediately. Keep unauthorized personnel away. Floor may be slippery. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Large spills should be diked far ahead of the liquid spill and pumped into containers for disposal. Flush area with water to remove residues.

## DOT SHIPPING INFORMATION

Not regulated

N/A = Not Applicable  
NFPA = National Fire Protection Association  
NOIBN = Not Otherwise Identified by Name  
TLV = Threshold Limit Value  
UNK = Unknown at This Time

**HCSCrys-1**

12/01/06