

MATERIAL SAFETY DATA SHEET

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SECTION I				
Product Identity (Name / Number)		CRYSTAL CLEAR Window & Glass Cleaner / 9643		
Chemical Family		Alkaline Cleaner.	NFPA Classification: Health = 1 Fire = 1 Reactivity = 1	
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ethylene glycol monobutyl ether	50ppm	20ppm	N/A	Proprietary
Isopropyl Alcohol	400ppm	400ppm	N/A	Proprietary
Ammonium Hydroxide	50ppm	25ppm	STEL: 35	Proprietary
SECTION III - Physical & Chemical Characteristics				
Boiling Point		Above 200°F		Specific Gravity
				1
Vapor Pressure (mm Hg)		N/A		Melting Point
				N/A
pH		9		Evaporation Rate (Ethyl Ether=1)
				<1
Solubility in Water		Complete		Appearance / Odor
				Clear Blue Liquid / Ammonia
SECTION IV - Fire & Explosion Hazard Data				
Flammable Limits (Explosive Limit)		Upper:	N/A	Lower: N/A
Flash Point (Method Used)		Above 140°F (TCC).		
Extinguishing Media		Water fog, foam, dry chemical, carbon dioxide.		
Special Fire Fighting Procedures		Combustible. Clear fire area of unprotected personnel. Do not enter confined area without full bunker gear including positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.		
Unusual Fire and Explosion Hazards		Containers exposed to intense heat should be cooled with water to prevent vapor pressure buildup. Accumulations of ammonia in confined spaces may explode if exposed to a strong ignition source.		
SECTION V - Reactivity Data				
Stability:	Unstable		X	Stable
Hazardous Polymerization:	X	Will Not Occur	May Occur	
Conditions To Avoid		Avoid heat, sparks, flame and contact with strong oxidizing agents, nitric acid, sulfuric acid, aldehydes or halogens. Heat releases ammonia vapors.		
Incompatibility (Materials to Avoid)		Avoid strong oxidizing agents, do not store in aluminum.		
Hazardous Decomposition or Byproducts		Carbon monoxide, nitrogen oxides unburned ammonia and unidentified organic compounds may be formed during combustion.		

SECTION VI(a) - Health Hazard Data

Inhalation	May cause irritation to nose, throat and respiratory tract. Overexposure may result in Central Nervous System (CNS) depression including dizziness and possible unconsciousness, difficulty in breathing, chest pain, bronchospasm, pulmonary edema and possibly death.
Eye	Exposure to liquid or vapor will irritate and burn eyes. Extreme exposure may cause corneal ulceration or blindness.
Skin	Product is mildly irritating to skin. Over exposure may dry the skin and cause skin burns.
Ingestion	Irritating to gastrointestinal tract. May cause intense pain, nausea, vomiting and diarrhea, CNS depression, low blood pressure, rapid heart rate, liver damage and collapsing. Possible death from shock or asphyxia may result.

Reported As Potential Carcinogen or Carcinogen

	International Agency for Research on Cancer	X	Not Applicable
	National Toxicology Program		OSHA

SECTION VI(b) - First Aid Procedures

Inhalation	Remove victim to fresh air. Provide oxygen if breathing is difficult. If not breathing, perform artificial respiration. Get medical attention.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.
Skin	Wash thoroughly with water for at least 15 minutes. Remove contaminated clothing. Get medical attention.
Ingestion	Do not give anything by mouth to a victim who is unconscious or drowsy. If conscious and alert, give two glasses of water. Do not induce vomiting. Get medical attention.

SECTION VI(c) - Employee Protection

Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline.) If TLV of product is exceeded, use NIOSH approved respirator, fully enclosed.

SPECIAL PROTECTION INFORMATION:

EYE	Chemical safety goggles or full face shield required if eye contact is possible.
SKIN	Wear chemical resistant gloves of nitrile, neoprene or natural rubber make if contact is possible.
VENTILATION	Provide sufficient mechanical ventilation to maintain exposure below TLV's.
SPECIAL PROTECTION	Impervious clothing and boots may be worn to prevent skin contact. Showers and eyewash facilities should be in close proximity.

SECTION VII - Special Precautions

Handling and Storage	Keep away from heat, sparks, flame, pilot lights, cigarettes and any other ignition source. Ground transfer equipment. Store in dry, cool area. Excessive heat may cause pressure build-up. Avoid contact with organic halogen and nitro compounds. Do not store with strong acids. Keep container closed when not in use.
Other Precautions	Not applicable

SECTION VIII - Environmental Protection

Spills / Releases	Wear appropriate respirator and protective clothing. Pick up the material by soaking an absorbent or other suitable way and flush area with water to remove trace of residue. Be aware of possible vapor clouds which may travel down wind and ignite.
Waste Disposal Method	In accordance with applicable local, state and federal regulations.

DISCLAIMER The information contained herein is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.