



MATERIAL SAFETY DATA SHEET

SECTION 1 - MANUFACTURER OR SUPPLIER DATA

MSDS NUMBER

100673

MANUFACTURER'S NAME & MAILING ADDRESS U S Chemical Corporation 316 Hart Street Watertown, Wisconsin 53094 USA	PREPARED BY D. E. Kenas	SIGNATURE <i>David E. Kenas</i>
	TITLE Quality Assurance Manager	DATE 12-20-99
EMERGENCY TELEPHONE NO. (24 HOUR SERVICE) Medical Emergency ONLY: 1-800-851-7145 Ext. 075	PRODUCT INFORMATION TELEPHONE NO. (8 AM TO 5 PM CST, MON - FRI) Product Information: 1-800-558-9566	

SECTION 2 - IDENTITY OF MATERIAL

PRODUCT NAME GLASS CLEANER		Also Known As: MIXMATE A	
PRODUCT DESCRIPTION Non-Ammoniated Window Cleaner		FORMULA Proprietary Blend	CHEMICAL FAMILY N.A.
REGULATED IDENTIFICATION	DOT PROPER SHIPPING NAME N.A. (Combustible Exception)		
	SHIPPING ID NUMBER N.A.	PACKING GROUP N.A.	HAZARD CLASS N.A.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT N.A.	SPECIFIC GRAVITY (H ₂ O = 1) .985	PHYSICAL FORM Liquid	COLOR Blue
VAPOR PRESSURE (mm Hg) N.A.	MELTING POINT N.A.	SOLUBILITY IN WATER Complete	SCENT None Added
VAPOR DENSITY (AIR = 1) N.A.	EVAPORATION RATE (BUTYL ACETATE = 1) N.A.	pH 2500 ppm SOLUTION N.A.	pH CONCENTRATE 11.0
OTHER Non-Viscous, Blue Solution with a Slight Solvent Odor.			

SECTION 4 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (CHEMICAL NAME: COMMON NAME)	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	PERCENT WT/WT
Isopropanol: Isopropyl Alcohol CAS Registry Number 67-63-0	400 ppm TWA	400 ppm TWA	500 ppm STEL (ACGIH/OSHA)	7.0-13.0
2-Butoxyethanol: Butyl Cellosolve CAS Registry Number 111-76-2	25 ppm TWA-Skin	25 ppm TWA-Skin	None	10.0-30.0

This product contains no other ingredient considered hazardous according to the criteria of 29 CFR 1910.1200, OSHA. However, this product contains chemicals which may be subject to reporting requirements according to the criteria of SARA Title III, 40 CFR, Part 370, Section 311 and Section 312. This product also contains chemicals which may be subject to reporting requirements according to the criteria of SARA Title III, 40 CFR, Part 372, Section 313.

STATE RIGHT TO KNOW INFORMATION

THIS PRODUCT CONTAINS: WATER/7732-18-5, BUTYL CELLOSOLVE/111-76-2, ISOPROPYL ALCOHOL/67-63-0, TETRASODIUM EDTA/64-02-8

NFPA RATING: Health-2/Flammability-2/Reactivity-0 See Section 5 for Protective Equipment.
HMIS RATING: Health-2/Flammability-2/Reactivity-0 See Section 5 for Protective Equipment.

CARCINOGENICITY:

This product does not contain any known carcinogens or anticipated carcinogens according to the criteria of the NTP Annual Report on Carcinogens, IARC Monographs, and OSHA 29 CFR 1910, Subpart Z.

(CONTINUED IN SECTIONS 5 TO 8)

SECTION 5 - SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES	EYES Safety glasses with side shields and an eye-wash station.	
	RESPIRATORY None required with normal use.	GLOVES Rubber or Neoprene.
	OTHER If major exposure is possible to eyes/skin, wear/use appropriate protective equipment.	
VENTILATION	GENERAL MECHANICAL Satisfactory. Maintain adequate ventilation. Keep levels below recommended TLV.	
	LOCAL EXHAUST Not ordinarily needed. Avoid inhalation of mists containing this product.	
PRECAUTIONS	HANDLING & STORAGE Follow all label directions. Instruct personnel about proper use, hazards, precautions, and first-aid measures. Avoid inhalation, ingestion and contact with skin and eyes.	
	Rotate stock regularly. Handle carefully to avoid damaging container. Keep container closed when not in use. Recommended storage temp below 100°F. Do not freeze. Keep out of children's reach.	

SECTION 6 - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE	INHALATION Inhalation of mists may cause irritation to nose, throat, and mucous membranes, tissue damage, and pulmonary irritation. Severity depends upon degree of exposure.	
	INGESTION May cause nausea, vomiting, and tissue damage to mouth, esophagus, stomach, and to other tissues with which contact is made. Severity depends upon degree of exposure.	
	SKIN & EYES SKIN: Contact may cause mild to severe irritation, depending on degree of exposure. EYES: Contact may cause severe irritation, temporary or permanent vision loss, and blindness.	
	ACUTE & CHRONIC ACUTE: Irritation to skin and eyes. Permanent eye damage may result without immediate first aid treatment. CHRONIC: None Known.	
ROUTES OF ENTRY	INGESTION-X SKIN ABSORPTION-X SKIN-X EYES-X INHALATION-X	TARGET ORGANS Skin, Eyes, Respiratory System, Blood, Liver, Kidneys.

SECTION 7 - PHYSICAL HAZARD DATA

FLAMMABILITY	LEL = Approx. 1.0% UEL = Approx. 10.6%	FLASH POINT = 109°F *See Section 8: Fire-Unusual Hazards	METHOD USED = Tag Closed Cup
STABILITY	STABLE	CONDITIONS TO AVOID Avoid mixing with any other cleaning product. Mix only with water. Avoid heat, sparks and open flame. Recommended storage temp. <100°F.	HAZARDOUS DECOMPOSITION PRODUCTS Burning can produce carbon monoxide, carbon dioxide, and other fumes.
	UNSTABLE		
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID N.A.	
	WILL NOT OCCUR		
INCOMPATIBILITY	MATERIALS TO AVOID Avoid strong alkalis, sodium hypochlorite or bleach and other oxidizing agents.		

SECTION 8 - EMERGENCY RESPONSE DATA

FIRE	EXTINGUISHING MEDIA To fight fire, use carbon dioxide, dry chemical or alcohol foam.
	SPECIAL PROCEDURES Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-approved self-contained breathing apparatus.
	UNUSUAL HAZARDS *This product has not been tested as a whole for LEL and UEL values. However, the values are listed for 2-Butoxyethanol, the component contributing to this hazard.
FIRST AID MEASURES	INGESTION: Do not induce vomiting. If patient is conscious and can swallow, administer milk or water. SKIN: Remove contaminated clothes, flood with water for 15 minutes. EYES: Flood with lukewarm (not hot) water poured from a large glass 2 or 3 inches from eyes. Remove contacts. Have patient blink as much as possible while flooding the eyes. Continue for 15 minutes. INHALATION: Move victim to fresh air. Give artificial respiration if patient is not breathing. ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-851-7145 Ext 075 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.
	STEPS TO BE TAKEN Wear proper protective equipment including rubber boots. Stop leak if you can do so without risk. Dike or dam large spills. Ventilate area if needed. Soak up with sand or other non-combustible inert absorbent materials. Flush area with water and follow with normal clean-up procedures. Keep combustibles away! Be careful as spills are slippery.
SPILLS	WASTE DISPOSAL METHOD Comply with all federal, state, and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste. If approved, may be diluted and drained to a municipal sewer or waste treatment plant. Rinse empty container thoroughly with water before discarding. Please recycle empty container whenever possible.

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR PROCESS. THE DATA CONTAINED IS BELIEVED TO BE ACCURATE. HOWEVER, SINCE USE CONDITIONS VARY AND ARE OUTSIDE OUR CONTROL, THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO LIABILITY FOR FAILURE TO FOLLOW PRODUCT USE DIRECTIONS AND SAFETY PRECAUTIONS.