

MATERIAL SAFETY DATA SHEET



Yushiro Manufacturing America, Inc.

Date-Issued: 4/19/2006

Yumate SC-931K

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Yumate SC-931K
GENERAL USE: Water Miscible Cutting and Grinding Fluid
DOT Description: None

MANUFACTURER	24 HR. EMERGENCY TELEPHONE NUMBERS
Yushiro Manufacturing America, Inc. 783 West Mausoleum Road Shelbyville, IN 46176	CHEMTREC (U.S.): (800) 424-9300 Customer Service: (317) 398-9862

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt. %</u>	<u>Listed as Carcinogen in NTP, IARC, or OSHA 1910 (Specify)</u>
Triethanolamine	102-71-6	10 - 19	Not Listed

COMMENTS: Product composition ranges shown are typical values for health, safety and environmental use and are not intended as specifications.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear Yellow Liquid

PRIMARY ROUTES OF ENTRY

EYES: Transient eye irritation.

SKIN: Possible skin defatting and subsequent irritation on repeated or prolonged contact.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for two to three minutes. Remove any contact lenses and continue flushing for 15 minutes. Get medical attention.

SKIN: Remove contaminated clothing including shoes and immediately wash affected area with plenty of soap and water. Wash contaminated clothing and shoes before reuse. Seek medical attention if required.

INGESTION: Wash out mouth with water and keep at rest. If large quantities ingested, pump stomach. Seek immediate medical attention.

INHALATION: Remove to fresh air. If cough or other symptoms develop, seek medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

FLAMMABLE LIMITS: Not Available

AUTOIGNITION TEMPERATURE: Not Available

EXTINGUISHING MEDIA: Extinguish as appropriate for the surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce CO, CO₂, NO_x, and SO_x.

SPECIAL FIRE FIGHTING PROCEDURES: None

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill control plan should be developed and implemented.

GENERAL PROCEDURES: Remove containers of strong oxidizers from release area.

RELEASE NOTES: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities.

In case of accident or road spill notify:

- CHEMTREC in USA at 800-424-9300

COMMENTS: See Section 13 for disposal information and Section 15 for regulatory requirements.

7. HANDLING AND STORAGE

HANDLING: Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area.

Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in unopened containers under cool and dry conditions.

Do not store with, or close to oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

WARNING! - Avoid contact with eyes, skin and clothing. Contact with eyes and skin may cause irritation. Prolonged contact may result in skin defatting, which may make the condition more severe. To decrease the risk of irritation, please refer to the personal protective equipment illustrated below.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	TWA	<u>EXPOSURE LIMITS</u>			
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>	
		<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Triethanolamine			5		5

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields or goggles when handling this material.

SKIN: Impervious gloves, such as nitrile, and aprons are recommended when handling concentrates or prolonged contact with diluted solutions. Water resistant barrier creams may also be a temporary control measure.

RESPIRATORY: Not normally required.

WORK HYGIENIC PRACTICES: Facilities storing or using this material should be equipped with an eyewash facility and a safety shower.

Good personal hygiene practices should always be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Mild

APPEARANCE: Clear Yellow Liquid

APPEARANCE OF DILUTION: Clear

pH: 9.8 (3%)

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

BOILING POINT: Not Applicable

FREEZING POINT: Not Available

MELTING POINT: Product is liquid at room temperature.

SOLUBILITY IN WATER: Soluble

SPECIFIC GRAVITY: 1.04 @20°C (Water=1.0)

VISCOSITY: N/A

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: None

STABILITY: The product is stable under normal ambient conditions of temperature and pressure.

POLYMERIZATION: Will not occur

POSSIBLE HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of C, N, and S.

INCOMPATIBLE MATERIALS: Avoid strong oxidizing agents, strong acids and nitrites.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: This material may cause irritation to the eyes.

SKIN EFFECTS: This material may cause irritation to the skin.

TARGET ORGANS:

Eyes

Skin

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: May cause adverse environmental impact if material reaches waterways.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

FOR LARGE SPILLS: Contain material and call local authorities for emergency assistance.

PRODUCT DISPOSAL: Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.

EMPTY CONTAINER: Dispose of in accordance with local, state, and federal regulations.

GENERAL COMMENTS: Refer to Section 6, Accidental Release Measures for additional information.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

BULK PROPER SHIPPING NAME: Not Regulated

NON-BULK PROPER SHIPPING NAME: Not Regulated

AIR (IATA)

PROPER SHIPPING NAME: Not Regulated

VESSEL (IMDG)

PROPER SHIPPING NAME: Not Regulated

15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All intentional ingredients are listed on or exempt from the TSCA Inventory.

HAZARD RATING SYSTEMS:

NFPA Hazard ratings provide identification of the hazards of the materials:

	NFPA	Key	
Health	1	4 - Severe	1 - Slight
Flammability	0	3 - Serious	0 - Minimal
Reactivity	0	2 - Moderate	