

## MATERIAL SAFETY DATA SHEET

### SECTION I

<b>PRODUCT NAME OR NUMBER (as it appears on label)</b> YUMATE MIC-3	<b>DATE</b> March, 2005
<b>MANUFACTURER'S NAME</b> YUMA INDUSTRIES INCORPORATED	<b>EMERGENCY PHONE #</b> YUMA 317-398-9862 CHEMTREC 800-424-9300
<b>ADDRESS (Number, Street, City, State, &amp; Zip Code)</b> 783 W. Mausoleum Road, Shelbyville, IN 46176 – 9720	
<b>HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZ. CLASS, HAZ. ID #</b> None	
<b>ADDITIONAL HAZARD CLASSES (as applicable)</b> None	
<b>CHEMICAL FAMILY</b> Water Miscible Cutting & Grinding Fluid Concentrate	<b>FORMULA</b> See Section II

### SECTION II – INGREDIENTS

CAS REGISTRY#	Wt. %	CHEMICAL NAME	Listed as a carcinogen in NTP, IARC, or OSHA 1910 (specify)
64741-89-5	20-39	Petroleum lubricating oil base stock	Not listed
64742-46-7		OSHA(PEL): TWA=5mg/m <sup>3</sup> for oil mist in air	
64742-52-5		ACGIH(TLV): TWA=5mg/m <sup>3</sup> for oil mist in air	
64742-53-6			
64742-54-7			
64742-57-0			
102-71-6	1-9	Triethanolamine ACGIH(TLV): TWA=5mg/m <sup>3</sup> for oil mist in air	Not listed
Balance classified as non-hazardous Ingredients			

### SECTION III – PHYSICAL DATA

<b>BOILING POINT</b> Not available	<b>SPECIFIC GRAVITY</b> (H <sub>2</sub> O=1) @20°C 0.97	<b>ODOR THRESHOLD (ppm)</b> Not available
<b>VAPOR PRESSURE</b> Not available	<b>PERCENT VOLATILE ( Vol.%)</b> Not available	<b>PERCENT SOLID (Wt.%)</b> Not available
<b>VAPOR DENSITY</b> Not available	<b>EVAPORATION RATE</b> Not available	<b>FREEZING POINT (°C)</b> Not available
<b>SOLUBILITY IN WATER</b> 100%	<b>pH</b> (4%) 9.6	<b>MATERIAL IS</b> Liquid
<b>APPEARANCE &amp; ODOR</b> Light Yellow with pleasant odor	<b>VOLATILE ORGANIC COMPOUNDS (VOC)</b> Not available	

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

<b>FLASH POINT</b> none	<b>METHOD USED</b>	<b>FLAMMABLE LIMITS</b> LEL/UEL Not available	<b>AUTO-IGNITION TEMPERATURE (°C)</b> Not available
<b>EXTINGUISHING MEDIA</b> As appropriate for surrounding fire			
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> None			
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> None			

**SECTION V – HEALTH HAZARD DATA**

<b>THRESHOLD LIMIT VALUE</b> See Section II		
<b>EFFECTS OF OVEREXPOSURE – Conditions to avoid</b> Transient eye irritation. Possible skin defatting and subsequent irritation on repeated or prolonged contact.		
<b>PRIMARY ROUTES OF ENTRY</b>	<b>Inhalation:</b> <b>Skin Contact: X</b>	<b>Eye Contact:</b> <b>Ingestion:</b>
<b>EMERGENCY AND FIRST AID PROCEDURES</b>  <b>EYES:</b> Flush with cool, clean water for at least 15 minutes.  <b>SKIN:</b> Wash with soap and warm water.  <b>INHALATION:</b> Remove to fresh air.  <b>INGESTION:</b> If large quantities are ingested, pump stomach.  In every case get medical attention as required.		

**SECTION VI – REACTIVITY DATA**

<b>STABILITY: UNSTABLE:</b> <b>STABLE : X</b>	<b>HAZARDOUS</b> <b>POLYMERIZATION</b>	<b>MAY OCCUR:</b> <b>WILL NOT OCCUR: X</b>
<b>CONDITIONS TO AVOID</b> None		
<b>INCOMPATIBILITY (MATERIALS TO AVOID)</b> Avoid strong oxidizing agents, strong acids and nitrites.		
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> Thermal decomposition may produce CO, CO <sub>2</sub> , NO <sub>x</sub> and SO <sub>x</sub> .		

**SECTION VII – SPILL OR LEAK PROCEDURES**

<p><b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b> Mop up or use dry absorbent.</p>
<p><b>WASTE DISPOSAL METHOD</b> Acid – Alum split Dispose in accordance with local, state and federal regulations.</p>

**SECTION VIII – SPECIAL PROTECTION INFORMATION**

<p><b>RESPIRATORY PROTECTION (Specify type)</b> None</p>	
<p><b>VENTILATION</b>  <b>Local exhaust (Specify rate):</b> Not normally required. <b>Special:</b> None  <b>Mechanical (general) (Specify rate):</b> General room ventilation should be sufficient. <b>Other:</b> None</p>	
<p><b>PROTECTIVE GLOVES (Specify type)</b> None</p>	<p><b>EYE PROTECTION (Specify type)</b> Safety glasses</p>
<p><b>OTHER PROTECTIVE EQUIPMENT</b> None</p>	

**SECTION IX – SPECIAL PRECAUTIONS**

<p><b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING</b> Keep container closed. Wash thoroughly after handling.</p>
<p><b>OTHER PRECAUTIONS</b> None</p>