

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME OR NUMBER (as it appears on label) YUMATE HEC-30	DATE April 2001
MANUFACTURER'S NAME YUMA INDUSTRIES INCORPORATED	EMERGENCY PHONE # YUMA 317-398-9862 CHEMTREC 800-424-9300
ADDRESS (Number, Street, City, State, & Zip Code) 783 W. Mausoleum Road, Shelbyville, IN 46176 – 9720	
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZ. CLASS, HAZ. ID # None	
ADDITIONAL HAZARD CLASSES (as applicable) None	
CHEMICAL FAMILY Water Miscible Cutting & Grinding Fluid Concentrate	FORMULA 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	40-59	Petroleum lubricating oil base stock	Not listed
64742-46-7		OSHA(PEL): TWA=5mg/m ³ for oil mist in air	
64742-52-5		ACGIH(TLV): TWA=5mg/m ³ for oil mist in air	
64742-53-6			
64742-54-7			
64742-57-0			
Balance classified Non-hazardous ingredients.			

SECTION III – PHYSICAL DATA

BOILING POINT Not available	SPECIFIC GRAVITY (H ₂ O=1) @20°C 0.97	ODOR THRESHOLD (ppm) Not available
VAPOR PRESSURE Not available	PERCENT VOLATILE (Vol.%) Not available	PERCENT SOLID (Wt.%) Not available
VAPOR DENSITY Not available	EVAPORATION RATE Not available	FREEZING POINT (°C) Not available
SOLUBILITY IN WATER 100%	pH (5%) 9.8	MATERIAL IS Liquid
APPEARANCE & ODOR Yellow with mild odor	VOLATILE ORGANIC COMPOUNDS (VOC) Not available	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

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

SECTION V – HEALTH HAZARD DATA

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

SECTION VI – REACTIVITY DATA

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

SECTION VII – SPILL OR LEAK PROCEDURES

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

SECTION VIII – SPECIAL PROTECTION INFORMATION

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

SECTION IX – SPECIAL PRECAUTIONS

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