

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME OR NUMBER (as it appears on label) YUMARK AZ8000W	DATE February 2005
MANUFACTURER'S NAME YUSHIRO CHEMICAL 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 Aluminum Die-Casting Releasing Agents	FORMULA See Section II

SECTION II – INGREDIENTS

CAS REGISTRY#	Wt. %	CHEMICAL NAME	Listed as a carcinogen in NTP, IARC, or OSHA 1910 (specify)
1310-73-2	1-9	Sodium hydroxide ACGIH(TLV): Ceiling=2mg/m ³	Not listed
Balance classified as Non-hazardous Ingredients			

SECTION III – PHYSICAL DATA

BOILING POINT Not available	SPECIFIC GRAVITY (H ₂ O=1) @20°C 1.04	ODOR THRESHOLD (ppm) Not available
VAPOR PRESSURE Not available	PERCENT VOLATILE (Vol.%) 76	PERCENT SOLID (Wt.%) 24
VAPOR DENSITY Not available	EVAPORATION RATE Not available	FREEZING POINT (°C) Not available
SOLUBILITY IN WATER 100%	pH (100%) 10.2	MATERIAL IS Liquid
APPEARANCE & ODOR White emulsion with mild odor	VOLATILE ORGANIC COMPOUNDS (VOC) Not available	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT none	METHOD USED	FLAMMABLE LIMITS LEL/UEL Not available	AUTO-IGNITION TEMPERATURE (°C) 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: Skin Contact: X	Eye Contact: 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: STABLE : X	HAZARDOUS POLYMERIZATION	MAY OCCUR: 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

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

SECTION VIII – SPECIAL PROTECTION INFORMATION

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

SECTION IX – SPECIAL PRECAUTIONS

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