

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-1; Flammability-0; Reactivity-0; Special -		HMIS Rating: Health-1; Flammability-0; Reactivity-0; Personal Protection-B	
Manufacturer's Name: K-CHEM, INC. Address: P.O.Box 530632 Birmingham, AL 35253		DOT Hazard Classification: Non-Hazardous Identity (trade name as used on label): K-CHEM 500 NON-PHOSPHATE	
Date Prepared: 08/16/02 Prepared By: KH		MSDS Number: DG46B Revision - 8	
Information Calls: (205)592-0844 EMERGENCY RESPONSE NUMBER: 1(800)255-3924		NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA	

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	OSHA PEL (ppm)	ACGIH TLV (ppm)	LDLo % MAX	SARA III LIST	Carcinogen Ref. Source **
2 butoxy ethanol	111-76-2	50	25	1.59 g/kg 5%	yes	d
sodium hydroxide	1310-73-2	2 mg/m3	2 mg/m3	500 mg/kg 2%	no	d
sodium metasilicate	6834-92-0	2 mg/m3	2 mg/m3	1.76 g/kg 2%	no	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 212 F	Specific Gravity (H2O=1): 1.07
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	Vapor Pressure (Non-Aerosols) (mm Hg): 17 mm
Vapor Density (Air = 1): na	Evaporation Rate (butyl acetate=1): na
Solubility in Water: soluble	Water Reactive: No
Appearance and Odor: Clear blue liquid/ slight butyl odor	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols): N/A	Auto Ignition Temperature: N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A
FLASH POINT AND METHOD USED (non-aerosols): TCC na		EXTINGUISHER MEDIA: not applicable
SPECIAL FIRE FIGHTING PROCEDURES: non needed		
Unusual Fire & Explosion Hazards: products of combustion could contain carbon monoxide or carbon dioxide		

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Incompatibility (Mat. to avoid): none	Conditions to Avoid: None
Hazardous Decomposition Products: not applicable	

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS	
Inhalation: Not considered a hazard	
Eye Contact: Flush with water while holding eyelid away from eye. Get medical attention immediately.	Skin Contact: Wash with large amounts of water.
Ingestion: NO NOT INDUCE VOMITING. Get emergency medical attention.	
CHRONIC EFFECTS: None known	
Medical Conditions Generally Aggravated by Exposure: None known	

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. If irritation persists, get medical attention.
Skin Contact: Rinse off thoroughly with water. If irritation persists, get medical attention.
Inhalation: Remove to fresh air. If irritation persists or other symptoms develop, get medical attention.
Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water followed by citrus juice or one ounce of vinegar in water. Follow with milk or olive oil. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): Not required.	Eye Protection: Glasses recommended. If splashing can occur wear full face shield.
Protective Gloves: Rubber, if desired.	
Ventilation Requirements: Use fans to insure sufficient air movement	
Other Protective Clothing & Equipment: Not required	
Hygienic Work Practices: Wash hands and face after handling and follow instructions on label.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken if Material is Spilled Or Released: Pick up spill with wet vacuum, scrub floor with water, send material to waste treatment site.
Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.
Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme heat and cold.
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
 ** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only