

# 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						
<b>NFPA Rating:</b> Health-2; Flammability-1; Reactivity-0; Special--			<b>HMIS Rating:</b> Health-2; Flammability-1; Reactivity-0; Personal Protection-B			
<b>Manufacturer's Name:</b> K-Chem, Inc <b>Address:</b> PO box 530632 Birmingham, AL 35253			<b>DOT Hazard Classification:</b> ORM-D <b>Identity</b> (trade name as used on label): <b>K-Chem 2000 Safety Solvent</b>			
<b>Date Prepared:</b> 12/08/04 <b>Prepared By:</b> TR/IB		<b>MSDS Number:</b> SO66A <b>Revision:</b> 5				
<b>Information Calls:</b> (205)592-0844 <b>EMERGENCY RESPONSE NUMBER:</b> 1(800)255-3924			<b>NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA</b>			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
1-BROMOPROPANE		106-94-5	No	*Not est.	Not est.	d
CARBON DIOXIDE		124-38-9	No	5000	5000	d
ISOPROPANOL		67-63-0	No	400	400	d
*Manufacturer's suggested Exposure Limit = 25 ppm over 8 hours.						
<b>WARNING: This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.</b>						
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
<b>Boiling Point:</b> N/A			<b>Specific Gravity</b> (H <sub>2</sub> O=1): Concentrate Only = 1.30			
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): 80-100			<b>Vapor Pressure</b> (concentrate only)(mmHg & Temp.): 90-100mmHg@25°C			
<b>Vapor Density</b> (Air = 1): greater than 1			<b>Evaporation Rate</b> (ether = 1): concentrate only: 0.8			
<b>Solubility in Water:</b> None			<b>Water Reactive:</b> No			
<b>Appearance and Odor:</b> Dual mist/stream spray with strong ethereal odor.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) <b>NOT CATEGORIZED AS FLAMMABLE</b>		<b>Auto Ignition Temperature</b> (bromopropane) 490°C / 914°F		<b>Flammability Limits in Air by % in Volume:</b> (bromopropane) % LEL: 3.0      % UEL: 8.0		
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): N/A			<b>EXTINGUISHER MEDIA:</b> Foam, dry chemical, carbon dioxide.			
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Self-contained breathing apparatus.						
<b>Unusual Fire &amp; Explosion Hazards:</b> Do not expose aerosols to temperatures above 130°F or the container may rupture.						
SECTION 4 - REACTIVITY HAZARD DATA						
<b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE			<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR			
<b>Incompatibility</b> (Mat. to avoid): Strong alkalis, oxidizers and reactive metals (i.e. potassium, sodium, etc.)			<b>Conditions to Avoid:</b> Open flame, welding arcs, heat, sparks.			
<b>Hazardous Decomposition Products:</b> Carbon dioxide, carbon monoxide, hydrogen bromide, bromine, hydrogen fluoride and trace amounts of hydrogen choride.						
SECTION 5 - HEALTH HAZARD DATA						
<b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS						
ACUTE EFFECTS						
<b>Inhalation:</b> Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation.						
<b>Eye Contact:</b> Slight irritation with tearing and redness.		<b>Skin Contact:</b> Slight irritation due to defatting of skin, itching, and redness.				
<b>Ingestion:</b> ASPIRATION HAZARD. May cause chemical pneumonia if aspirated into lungs from vomiting. Gastrointestinal irritation.						
<b>CHRONIC EFFECTS:</b> (Effects due to long term excessive exposure to the raw materials of this mixture may cause adverse liver, kidney, respiratory system and Central Nervous System effects.						
<b>Medical Conditions Generally Aggravated by Exposure:</b> May aggravate existing eye, skin, or upper respiratory conditions.						
EMERGENCY FIRST AID PROCEDURES						
<b>Eye Contact:</b> Flush with plenty of water for at least 15 minutes. If irritated, seek medical attention.						
<b>Skin Contact:</b> Wash with soap and water. If irritated, seek medical attention.						
<b>Inhalation:</b> Remove to fresh air. Resuscitate if necessary. Get medical attention.						
<b>Ingestion:</b> <b>DO NOT INDUCE VOMITING. Aspiration hazard.</b> Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
<b>Respiratory Protection (specify type):</b> If vapor concentration exceeds TLV, use respirator approved by NIOSH approved for organic vapor.						
<b>Protective Gloves:</b> Neoprene			<b>Eye Protection:</b> Safety glasses recommended.			
<b>Ventilation Requirements:</b> Adequate ventilation to keep vapor concentration below TLV.						
<b>Other Protective Clothing &amp; Equipment:</b> None						
<b>Hygienic Work Practices:</b> Wash with soap and water before handling food.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Absorb spilled liquid with inert material. Place in closed drum for proper disposal. DO NOT FLUSH TO SEWER. Dispose of according to State, Federal and Local regulations.						
<b>Waste Disposal Methods:</b> Aerosol cans when vented to atmospheric pressure through normal use pose no disposal hazard.						
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Do not puncture or incinerate containers. Do not store at temperatures above 130°F.						
<b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. Avoid food contamination.						

*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