

# MATERIAL SAFETY DATA SHEET

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

| IDENTITY AND DISTRIBUTOR'S INFORMATION  |  |   |   |   |                 |                           |
|---|--|---|---|---|-----------------|---------------------------|
| <b>NFPA Rating:</b> Health-2; Flammability-0; Reactivity-0; Special--   |  |   | <b>HMIS Rating:</b> Health-2; Flammability-0; Reactivity-0; Personal Protection-B   |   |                 |                           |
| <b>Manufactured For:</b> K-Chem, Inc.<br>Address: P.O. Box 530632<br>Address: Birmingham, AL 35253-0632   |  |   | <b>DOT Hazard Classification:</b> ORM-D<br><b>Identity</b> (trade name as used on label):<br><b>KONTACT KLEANER III<br/>S083A</b> |   |                 |                           |
| Phone: (205)592-0844  |  |   | <b>MSDS Number:</b> A00363      Revision- 2   |   |                 |                           |
| Emergency Response Number: 1(800)255-3924   |  |   | Date Prepared: 6/1/05      Prepared By: IB/TR   |   |                 |                           |
| <b>NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA</b>   |  |   | Information Calls: (770)422-2071  |   |                 |                           |
| SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION   |  |   |   |   |                 |                           |
| COMPONENTS-CHEMICAL NAMES AND COMMON NAMES<br>(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                         |
| 3,3-DICHLORO-1,1,1,2,2-PENTAFLUOROPROPANE   |  | 422-56-0                                | No  | NE  | NE              | d                         |
| 1,3-DICHLORO-1,1,2,2,3-PENTAFLUOROPROPANE   |  | 507-55-1                                | No  | NE  | NE              | d                         |
| CARBON DIOXIDE  |  | 124-38-9                                | No  | 5000  | 5000            | 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> (H2O=1): Concentrate Only = 1.33  |   |                 |                           |
| <b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): 50-60  |  |   | <b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/A  |   |                 |                           |
| <b>Vapor Density</b> (Air = 1): greater than 1  |  |   | <b>Evaporation Rate</b> (water = 1): > 1.0  |   |                 |                           |
| <b>Solubility in Water:</b> Negligible  |  |   | <b>Water Reactive:</b> No   |   |                 |                           |
| <b>Appearance and Odor:</b> Sprays as a clear, forceful, stream with solvent odor.  |  |   |   |   |                 |                           |
| SECTION 3 - FIRE AND EXPLOSION HAZARD DATA  |  |   |   |   |                 |                           |
| <b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols): extinguishes flame: NOT categorized as FLAMMABLE   |  | <b>Auto Ignition Temperature</b><br>N/E |   | <b>Flammability Limits in Air</b> by % in Volume:<br>% LEL: N/E      % UEL: N/E |                 |                           |
| <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 oxidizing agents, strong bases (sodium hydroxide, potassium hydroxide), alkaline earth metals, finely powdered metals such as aluminum, magnesium or zinc.   |  |   | <b>Conditions to Avoid:</b> Open flame, glowing metal surfaces, welding arcs, heat, sparks.                                       |   |                 |                           |
| <b>Hazardous Decomposition Products:</b> Carbon dioxide, carbon monoxide, hydrofluoric acid, hydrochloric acid, chlorine, bromine and possible carbonyl halides.  |  |   |   |   |                 |                           |
| SECTION 5 - HEALTH HAZARD DATA  |  |   |   |   |                 |                           |
| <b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ X ] EYE [ ] NOT HAZARDOUS  |  |   |   |   |                 |                           |
| ACUTE EFFECTS   |  |   |   |   |                 |                           |
| <b>Inhalation:</b> Excessive inhalation of vapors can cause central nervous system depression, dizziness, weakness, confusion, incoordination or unconsciousness. Irregular heart beat with a strange sensation in the chest, "heart thumping", apprehension, lightheadedness, feeling of fainting, dizziness, weakness may progress to loss of consciousness and death. Suffocation if air is displaced by vapors. |  |   |   |   |                 |                           |
| <b>Eye Contact:</b> Irritation with tearing, pain or blurred vision.  |  |   | <b>Skin Contact:</b> Slight irritation with itching, redness or swelling. Prolonged exposure may result in defatting of the skin. |   |                 |                           |
| <b>Ingestion:</b> Aspiration which may cause "chemical pneumonia". Symptoms include coughing, gasping, choking, shortness of breath, bluish discoloration of skin, rapid breathing and increased heart rate.  |  |   |   |   |                 |                           |
| <b>CHRONIC EFFECTS:</b> (Effects due to excessive exposure to the raw materials of this mixture) Excessive inhalation may result in 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 water for 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: DO NOT INDUCE VOMITING.</b> Drink two large glasses of water. 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 for organic vapor.   |  |   |   |   |                 |                           |
| <b>Protective Gloves:</b> Neoprene or other as recommended compatible by glove manufacturer.  |  |   | <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 hands 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 with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.   |  |   |   |   |                 |                           |
| <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.   |  |   |   |   |                 |                           |

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