

# 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: K-CHEM, INC.</b> Address: P.O.Box 530632, Birmingham, AL 35253			<b>DOT Hazard Classification:</b> ORM-D <b>Identity</b> (trade name as used on label): <b>Kontakt Kleaner IV</b>		
Phone: (205) 592-0844			<b>MSDS Number:</b> SO01A Revision- 2		
<b>EMERGENCY RESPONSE NUMBER: 800-255-3924</b> <b>NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA</b>			Date Prepared: 03/23/09 Prepared By: IB Information Calls: (205)592-0844		
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 **
<b>1,1,1,2-TETRAFLUOROETHANE</b>	811-97-2	NO	NE	NE	d
<b>HEXAMETHYLDISILOXANE</b>	107-48-0	NO	200 TWA	NE	d
<b>OCTAMETHYLTRISILOXANE</b>	107-51-7	NO	200 TWA	NE	d
<b>DICHLOROETHYLENE</b>	156-60-5	NO	200	200	d
ETHANOL	64-17-5	NO	1000	1000	D
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
<b>Boiling Point:</b> N/A			<b>Specific Gravity (H2O=1):</b> Concentrate Only = 1.44		
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): MAX 75			<b>Vapor Pressure (Non-Aerosols)(mm Hg and Temperature):</b> N/A		
<b>Vapor Density (Air = 1):</b> Greater than 1			<b>Evaporation Rate (Water=1) &gt;1.0</b>		
<b>Solubility in Water:</b> Negligible			<b>Water Reactive:</b> No		
<b>Appearance and Odor:</b> Clear fine mist spray with light solvent odor (Extension tube attachment delivers narrow forceful mist.)					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) <b>extinguishes flame; NON-FLAMMABLE per CPSC</b>		<b>Auto Ignition Temperature</b> N/E		<b>Flammability Limits in Air by % in Volume:</b> % 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> Compressed liquefied gas has heavy vapors which can suffocate. Although silicone evaporates, material can create slippery conditions while on walking surfaces. Do not expose aerosols to temperatures above 120°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> CO2, CO, HF, HCl, Cl, and possible carbonyl halides.					
SECTION 5 - HEALTH HAZARD DATA					
<b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ X ] INGESTION [ ] SKIN ABSORPTION [ X ] EYE [ ] NOT HAZARDOUS					
<b>ACUTE EFFECTS:</b>					
<b>Inhalation:</b> Excessive inhalation of vapors can cause central nervous system depression, dizziness, weakness, confusion, incoordination or unconsciousness. Irregular heartbeat with a strange sensation in 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, "Frostbite-like" effects may occur if liquid or excessive vapors sprayed directly in contact with eyes.			<b>Skin Contact:</b> Slight irritation with itching, redness or swelling. Prolonged exposure may result in irritation of skin. Overexposure to directly sprayed liquid and vapors may cause frostbite.		
<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 and other symptoms characteristic of inhalation.					
<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. Have eyes examined and treated by medical personnel.					
<b>Skin Contact:</b> Thaw affected area with water; remove contaminated clothing. Wash with soap and water; if irritation or blistering develops, get medical attention.					
<b>Inhalation:</b> Remove to fresh air; resuscitate if necessary. Administer oxygen if breathing is difficult. DO NOT administer adrenaline or similar sympathomimetic drugs as cardiac arrhythmias may result. Seek immediate medical attention.					
<b>Ingestion:</b> DO NOT INDUCE VOMITING. May result in aspiration into lungs. See inhalation procedures. 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> Impervious gloves such as nitrile, neoprene or other as recommended by glove manufacturer.			<b>Eye Protection:</b> Safety glasses recommended.		
<b>Ventilation Requirements:</b> Adequate ventilation to keep vapor concentration below TLV. Local exhaust. Note to ventilate low-lying areas where dense vapors collect.					
<b>Other Protective Clothing &amp; Equipment:</b> Eye wash station suggested.					
<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 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 120°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.