

# 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-0			<b>HMIS Rating:</b> Health-2; Flammability-0; Reactivity-0; Personal Protection-B			
<b>Manufactured For:</b> TRIPLE S Address: 2 Executive Park Dr. Address: Billerica, MA 01862 Phone: 978-667-7900			<b>DOT Hazard Classification:</b> ORM-D <b>Identity</b> (trade name as used on label): <b>SSS PENETRANT LUBRICANT</b>			
<b>EMERGENCY RESPONSE NUMBER:</b> 1-800-255-3924			<b>MSDS Number:</b> 390 <b>Revision:</b> 17			
<b>NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA</b>			<b>Date Prepared:</b> 08/28/96 <b>Prepared By:</b> DL <b>Information Calls:</b> 978-667-7900			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
<b>COMPONENTS-CHEMICAL NAMES AND COMMON NAMES</b> (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
TRICHLOROETHYLENE		79-01-6	Yes	50	50	b
PERCHLOROETHYLENE		127-18-4	Yes	25	25	a,b
PETROLEUM DISTILLATE		64742-54-7	Yes	5mg\M3	5mg\M3	d
BARIUM PETROLEUM SULFONATE		61760-48-5	Yes	5mg\M3	5mg\M3	d
<b>WARNING: This product contains a chemical or chemicals known to the State of California to cause cancer.</b>						
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
<b>Boiling Point:</b> N/A			<b>Specific Gravity</b> (H2O=1): Concentrate Only = 1.44			
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): 85-100			<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/A			
<b>Vapor Density</b> (Air = 1): N/E			<b>Evaporation Rate</b> (n-butyl acetate= 1): 2.1 (concentrate only)			
<b>Solubility in Water:</b> Insoluble			<b>Water Reactive:</b> No			
<b>Appearance and Odor:</b> Light brown odor with chlorinated solvent odor.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) <b>NON-FLAMMABLE</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> 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): Reactive metals, aluminum, magnesium, strong oxidizing agents.			<b>Conditions to Avoid:</b> Open flame, welding arcs, heat.			
<b>Hazardous Decomposition Products:</b> CO2, CO, HCl, small amounts of phosgene and chlorine.						
SECTION 5 - HEALTH HAZARD DATA						
<b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS						
<b>ACUTE EFFECTS:</b>						
<b>Inhalation:</b> Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.						
<b>Eye Contact:</b> Irritation			<b>Skin Contact:</b> Irritation due to defatting of skin.			
<b>Ingestion:</b> Possible chemical pneumonitis if aspirated into lungs. Nausea.						
<b>CHRONIC EFFECTS:</b> (Effects due to excessive exposure to the raw materials of this mixture) May cause liver abnormalities, kidney, spleen, lung or brain damage, cardiac abnormalities. Perchloroethylene has been shown to increase the rate of spontaneously occurring malignant tumors in certain laboratory rats and mice.						
<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:</b> <b>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 U.S. Bureau of Mines for organic vapor.						
<b>Protective Gloves:</b> Neoprene gloves recommended.			<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. Remove contaminated clothing.						
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. Allow to evaporate if small spill. 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> <b>KEEP OUT OF REACH OF CHILDREN.</b> Avoid food contamination. Avoid inhalation of vapors.						

*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

**THIS MSDS IS CURRENT AS OF JANUARY 10, 2000.** The DATE PREPARED section is the original date assembled and remains current until a change is necessary.