

MATERIAL SAFETY DATA SHEET

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SECTION I				
Product Identity (Name / Number)		SHIELD Metal Lubricant, Penetrant & Rust Protector / 9805		
Chemical Family		Petroleum Hydrocarbon Distillate		
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Petroleum Distillate	400ppm	400ppm		Proprietary
SECTION III - Physical & Chemical Characteristics				
Boiling Point	475 - 610°F	Specific Gravity	0.8	
Vapor Pressure (mm Hg)	Less than 0.01 Lb	Melting Point	N/A	
pH	N/A	Evaporation Rate (Ethyl Ether=1)	Estimated Slower	
Solubility in Water	(G/100g Water at 20°C) Negligible	Appearance / Odor	Clear Liquid / Lemon	
SECTION IV - Fire & Explosion Hazard Data				
Flammable Limits (Explosive Limit)	Upper:	6	Lower:	0.7
Flash Point (Method Used)	Tag Closed Cup 260°F			
Extinguishing Media	Water fog, foam, dry chemical, carbon dioxide.			
Special Fire Fighting Procedures	Product is combustible. Clear fire area of unprotected personnel. Do not enter confined area without full bunker gear including positive pressure self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards	Never use welding or cutting torch on or near drum (even empty) because product can ignite.			
SECTION V - Reactivity Data				
Stability:	Unstable	X	Stable	
Hazardous Polymerization:	X	Will Not Occur		May Occur
Conditions To Avoid	Avoid heat, sparks, flame and contact with strong oxidizing agents.			
Incompatibility (Materials to Avoid)	Avoid strong oxidizing agents, do not store in aluminum.			
Hazardous Decomposition or Byproducts	Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during combustion.			

SECTION VI(a) - Health Hazard Data			
Inhalation	Breathing mists may cause headaches and nasal and respiratory irritation. Overexposure may cause nausea, drowsiness, CNS depression, convulsions and loss of consciousness.		
Eye	Will cause irritation.		
Skin	May be irritating. Prolonged overexposure may cause dermatitis.		
Ingestion	Same symptoms as inhalation may be experienced.		
Reported As Potential Carcinogen or Carcinogen			
	International Agency for Research on Cancer	X	Not Applicable
	National Toxicology Program		OSHA
SECTION VI(b) - First Aid Procedures			
Inhalation	Remove victim to fresh air. If breathing is difficult, perform artificial respiration. Get medical attention.		
Eye	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.		
Skin	Wash thoroughly with water and soap for at least 15 minutes. Remove contaminated clothing. Get medical attention.		
Ingestion	DO NOT induce vomiting. Give large quantities of water. Get medical attention.		
SECTION VI(c) - Employee Protection			
Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturers protection factors and OSHA standard 1910.134 as a guideline.) If TLV of product is exceeded, use NIOSH approved respirator, fully enclosed.			
<u>SPECIAL PROTECTION INFORMATION:</u>			
EYE	Chemical safety goggles or face shield as appropriate.		
SKIN	Chemical resistant gloves such as nitrile, neoprene or other materials resistant to distillate are required.		
VENTILATION	Provide sufficient mechanical ventilation to maintain exposure below TLV's.		
SPECIAL PROTECTION	Impervious clothing and boots may be worn to prevent skin contact. Showers and eyewash facilities should be in close proximity.		
SECTION VII - Special Precautions			
Handling and Storage	Store in cool, dry area. Avoid heat, sparks, flame and contact with strong oxidizing agents. Open containers very slowly, allowing any gas build up to be released gradually.		
Other Precautions	Empty containers retain product residues. Vapors are combustible.		
SECTION VIII - Environmental Protection			
Spills / Releases	Notify emergency response personnel. Evacuate area and remove ignition sources. Build dike to contain flow. Remove free liquid, do not flush to sewer or open water. Pick up with inert absorbent and place in closed container for disposal.		
Waste Disposal Method	Dispose of in accordance with all local, state and federal regulations.		

DISCLAIMER The information contained herein is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.