

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						
NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special- - Manufactured For: Hillyard Industries, Inc. Address: 302 N. 4 th Street Address: St. Joseph, MO 64501			HMIS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-B DOT Hazard Classification: ORM-D Identity (trade name as used on label): I-Force Penetrating Lubricant NC (# HIL0111454)			
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300 NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			MSDS Number: A00393 Revision- 10 Date Prepared: 05/27/03 Prepared By: AH/IB Information Calls: (770) 422-2071			
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 **
PETROLEUM DISTILLATE		64742-47-8	No	NE	NE	d
ALIPHATIC PETROLEUM DISTILLATE		8052-41-3	No	100	100	d
PETROLEUM OIL		64742-53-6	No	5mg/M3	5mg/M3	d
ISOBUTANE / PROPANE BLEND		74-98-6	No	1000	1000	d
		75-28-5	No	800	800	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: N/A			Specific Gravity (H ₂ O=1): Concentrate Only = .79			
Vapor Pressure: PSIG @ 70°F (Aerosols): Max. 60			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A			
Vapor Density (Air = 1): N/E			Evaporation Rate (= 1): N/E			
Solubility in Water: Insoluble			Water Reactive: No			
Appearance and Odor: Light straw spray with aliphatic solvent odor.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols: greater than 18 " with flashback to tip. EXTREMELY FLAMMABLE		Auto Ignition Temperature N/E		Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E		
FLASH POINT AND METHOD USED (non-aerosols): N/A SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.		EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.				
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY [X] STABLE [] UNSTABLE			HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR			
Incompatibility (Mat. to avoid): Strong oxidizing agents.			Conditions to Avoid: Open flame, welding arcs, heat, sparks.			
Hazardous Decomposition Products: CO, CO ₂ , unknown oxides of carbon, as well as trace amounts of fluorides, phosphides and zinc.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS						
ACUTE EFFECTS						
Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.						
Eye Contact: Mild irritation.			Skin Contact: Mild irritation due to defatting of skin.			
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.						
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) May cause eye damage, lung damage, dermatitis.						
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Flush with water for at least 15 minutes. If irritated, seek medical attention.						
Skin Contact: Wash affected areas with soap and water. If irritated, seek medical attention.						
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH/MSHA for organic vapor.						
Protective Gloves: Neoprene, if skin easily irritated.			Eye Protection: Safety glasses recommended.			
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.						
Other Protective Clothing & Equipment: Eyewash station recommended.						
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Absorb spilled liquid with inert material. Place in closed drum for proper disposal. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.						
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.						
Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Remove ignition sources.						

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.