

Material Safety Data Sheet

IDENTITY Steel Shield™ Engine Shield™ Metal Treatment	ENGINE SHIELD™
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Section I

Manufacturer's Name Steel Shield Technologies, Inc.	Emergency Telephone Number (412) 479-0024
Address 3351 Industrial Blvd.	Telephone Number for Information (800) 390-1535
Bethel Park, PA 15102	Date Prepared March 24, 2006
	Signature of Preparer <i>(optional)</i>

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV
Synthetic Hydrocarbon Base Stock Fluid	500 ppm	5mg/m³
Synthetic Hydrocarbon Extreme Pressure Additive	500 ppm	5mg/m³
Lubricity/Anti-Scuff Additive	500 ppm	5mg/m³
Corrosion Inhibiting Additive	500 ppm	5mg/m³

Section III - Physical/Chemical Characteristics

Boiling Point	238° C	Specific Gravity (H ₂ O = 1)	1.07
Vapor Pressure (mm Hg.)	< 1 @ 25° C	Melting Point	NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	< 0.01
Solubility in Water Insoluble			
Appearance and Odor Medium to Dark Amber – Mild Oil Odor			

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) 226° C	Flammable Limits NA	LEL NA	UEL NA
Extinguishing Media Chemical , CO₂ , Foam , Waterfog			
Special Fire Fighting Procedures Use Self Contained Breathing Apparatus in confined or closed areas			
Unusual Fire and Explosion Hazards			
Handle and treat as oil – non-explosive and non-flammable under normal conditions			

Section V - Reactivity Data

Stability	Stable		Conditions to Avoid Open Flames and Molten Temperatures
Incompatibility (<i>Materials to Avoid</i>) Strong Oxidizers			
Hazardous Decomposition or Byproducts Carbon dioxide, carbon monoxide, various hydrocarbons and HCl if combustion is not complete			
Hazardous Polymerization	Will Not Occur		Conditions to Avoid None Known

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? NO	Skin? NO	Ingestion? YES
Health Hazards (<i>Acute and Chronic</i>) Ingestion of product may produce nausea and vomiting, but no long-term effects.			
Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
Signs and Symptoms of Exposure Mild irritation of eyes; the toxicity profile shows excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, fatigue, headaches and nausea.			
Medical Conditions Generally Aggravated by Exposure None Known			
Emergency and First Aid Procedures Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician if irritation persists. Skin: Wash thoroughly with soap and water. Inhalation of combusted fumes: Remove exposed person to fresh air. Ingestion: Call a physician. Do NOT induce vomiting.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Prevent discharge to streams and sewers. Notify Appropriate agencies.
Waste Disposal Method Dispose of in accordance with all federal, state, and local regulations.
Precautions to Be taken in Handling and Storing Keep away from food and feed products. Do not store near flame, cutting, welding, or ignition sources.
Other Precautions Remove and launder contaminated clothing. Do not store in temperatures in excess of 150° F.

Section VIII - Control Measures

Respiratory Protection		
Ventilation	Local Exhaust – Not normally required	Special - None
If TLV is exceeded, use NIOSH/OSHA approved respirator.	Mechanical (<i>General</i>) Not required	Other NA
Protective Gloves Neoprene or Nitrile Rubber	Eye Protection Safety Goggles or face shield	
Other Protective Clothing or Equipment None		
Work/Hygienic Practices Wash thoroughly after use or contact. Use good hygienic practices.		

Section IX - Special Precautions

Precautions to be taken in Handling and Storing			
NFPA Rating: Health: 1 Fire: 1 Reactivity: 0 Special: 0			
Other Precautions DOT ID #: NA DOT LABEL REQUIRED: None HAZARD CLASS: Non-hazardous PACKING GROUP: NA FREIGHT CLASSIFICATION: Lubricating oil			