

# Material Safety Data Sheet

<b>IDENTITY</b> <b>Steel Shield™ Rail Shield™ Metal Treatment</b>	<b>RAIL SHIELD™</b>
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## Section I

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

## Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV
<b>Synthetic Hydrocarbon Base Stock Fluid</b>	<b>500 ppm</b>	<b>5mg/m<sup>3</sup></b>
<b>Synthetic Hydrocarbon Extreme Pressure Additive</b>	<b>500 ppm</b>	<b>5mg/m<sup>3</sup></b>
<b>Lubricity/Anti-Scuff Additive</b>	<b>500 ppm</b>	<b>5mg/m<sup>3</sup></b>
<b>Corrosion Inhibiting Additive</b>	<b>500 ppm</b>	<b>5mg/m<sup>3</sup></b>

## Section III - Physical/Chemical Characteristics

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

## Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) <b>226° C</b>	Flammable Limits <b>NA</b>	LEL <b>NA</b>	UEL <b>NA</b>
Extinguishing Media <b>Chemical , CO<sub>2</sub> , Foam , Waterfog</b>			
Special Fire Fighting Procedures <b>Use Self Contained Breathing Apparatus in confined or closed areas</b>			
Unusual Fire and Explosion Hazards			
<b>Handle and treat as oil – non-explosive and non-flammable under normal conditions</b>			

## Section V - Reactivity Data

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

## Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? <b>NO</b>	Skin? <b>NO</b>	Ingestion? <b>YES</b>
Health Hazards ( <i>Acute and Chronic</i> ) <b>Ingestion of product may produce nausea and vomiting, but no long-term effects.</b>			
Carcinogenicity:	NTP? <b>NO</b>	IARC Monographs? <b>NO</b>	OSHA Regulated? <b>NO</b>
Signs and Symptoms of Exposure <b>Mild irritation of eyes; the toxicity profile shows excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, fatigue, headaches and nausea.</b>			
Medical Conditions Generally Aggravated by Exposure <b>None Known</b>			
Emergency and First Aid Procedures <b>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.</b>			

## Section VII - Precautions for Safe Handling and Use

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

## Section VIII - Control Measures

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

## Section IX - Special Precautions

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