



# SAFETY DATA SHEET

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## 1. COMPANY AND PRODUCT IDENTIFICATION

**Product Name:** Steel Shield "WEAPON SHIELD GREASE"

**Product code:** WSG

**Recommended Use** Lubricating Grease for medium and heavy machine guns, M-1s, M-14s, Mini 14s & 30s. Can be used on polymer frames of popular handguns.

**Uses advised against** Tight tolerance firearms, such as AR-15 and M-4 platforms.

### Supplier/Manufacturer:

Steel Shield Technologies, Inc.  
3351 Industrial Blvd  
Bethel Park, PA 15102  
(800) 390-1535, (412) 479-0024, FAX (412) 831-3823  
E-MAIL: sstinc2@verizon.net, gcfennell@weaponshield.com

## 2. HAZARDS IDENTIFICATION

### Classification OSHA Regulatory Status

Considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR1910.1200) Skin Sensitization Category 1A

### Emergency telephone number:

\* 24 HOUR TRANSPORTATION:

\*\*CHEMTREC: 1-800-424-9300

+703-527-3887 (Call collect outside of US)

\* 24 HOUR EMERGENCY HEALTH & SAFETY:

\*\* (800) 523-7010 (Within US only) Outside of US call (703) 527-3887

### Hazard Statements

May cause an allergic skin reaction



**Appearance** Opaque Amber

**Physical State** Grease **Odor** Bland

### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

### **Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** None known

**Other Information** Harmful to aquatic life.

**Unknown acute toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Components - Weight %**

Mineral Oil - 80%

Lithium Hydroxy Stearate (Soap) - 10%

\*\*Steel Shield Proprietary Additives - 5%

Zinc/Titanium Oxide - 5%

\*\*The exact composition has been withheld as a trade secret, however the components are all listed and certified environmentally friendly/non-hazardous.

## **4. FIRST AID MEASURES**

**General advice:** Show this safety data sheet to the doctor in attendance Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

**Skin contact:** Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.

### **Hazard Statements**

May cause an allergic skin reaction

**Ingestion:** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice Never give anything by mouth to an unconscious person

**Inhalation:** Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration If breathing is difficult, give oxygen Consult a physician.

**Note to physician:** Treat symptomatically.

**Medical condition aggravated by exposure:** Dermatitis.

## **5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or `alcohol` foam.

**Specific hazards:** Do not allow material to contaminate ground water system.

### **Special protective equipment for fire-fighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Specific methods:** Water mist may be used to cool closed containers

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Ensure adequate ventilation Do not breathe vapour/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling

**Environmental precautions:** Do not flush into surface water or sanitary sewer system Prevent further leakage or spillage if safe to do so

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

## 7. HANDLING AND STORAGE

### Handling Technical measures/precautions:

Provide sufficient air exchange and/or exhaust in work rooms.

**Safe handling advice:** In case of insufficient ventilation, wear suitable respiratory equipment Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes Wash thoroughly after handling

### Storage Technical measures/storage conditions:

Store at room temperature in the original container

**Incompatible products:** Strong Oxidizing Agents

**Safe storage temperature:** 40 - 100 ° F

**Shelf life:** 2 years

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components ACGIH Exposure Limits OSHA TWA (final) NIOSH - Pocket Guide

Mineral oil 5 mg/m<sup>3</sup> 5mg/m<sup>3</sup> 5mg/m<sup>3</sup>

AW EP Additive 5 mg/m<sup>3</sup>: None

**Engineering measures:** Ensure adequate ventilation

### Personal Protective Equipment:

**General:** Eye Wash and Safety Shower

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

**Eye protection:** Safety glasses with side-shields

**Hand protection:** Recommended: neoprene, latex, nitrile, butyl rubber and polyethylene type

**Skin and body protection:** Long sleeved clothing

**Hygiene measures:** Avoid contact with skin, eyes and clothing.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Grease

**Appearance** Opaque Amber

**Odor** Bland

**Odor Threshold** No information available

**pH concentrate:** Not applicable

**pH Dilution** No information available

**Melting/freezing point** No information available

**Boiling Point/Range** No information available

**Flash Point** 257 °C / 495 °F

**Method** Cleveland Open Cup (COC)

**Evaporation rate** No information available

### Flammability Limits in Air

**upper flammability limit** No information available

**lower flammability limit** No information available

**VOC Content Product (lb/gal)** No information available

**Vapor pressure** No information available

**Vapor density** No information available

**Specific Gravity (g/cc, 15 C)** 0.88

**Bulk Density (lb/gal, 15 C)** 7.34

**Water Solubility** Insoluble

**Solubility in other solvents** No information available

**Partition coefficient: n-octanol/water** No information available

**Auto-ignition temperature** No information available

**Decomposition Temperature** No information available  
**Kinematic viscosity** 220 mm<sup>2</sup>/s @ 40 C  
**Dynamic viscosity** No information available  
**Molecular Weight** No information available

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Conditions to avoid:** None known.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous decomposition products:** Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides. Smoke.

**Hazardous Polymerization:** Not applicable.

## 11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

### Information on likely routes of exposure

**Inhalation:** May cause irritation of respiratory tract.

**Eye Contact:** Contact with eyes may cause irritation.

**Skin Contact** May cause sensitization by skin contact.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Components LD50 Oral LD50 Dermal LC50 Inhalation**

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

**Components IARC Carcinogens NTP OSHA -**

**Select Carcinogens:** Not listed

**Sensitization** Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.

**Mutagenic effects:** No information available.

**Reproductive Toxicity** No information available.

**Developmental Toxicity** No information available.

**Teratogenic:** No information available.

**Specific target organ systemic toxicity (single exposure)** No information available.

**Specific target organ systemic**

**toxicity (repeated exposure)** No information available.

**Aspiration hazard** No information available.

### Additional information on toxicological effects

**MINERAL OIL INFORMATION:** Any product containing a substance for which OSHA has established a permissible exposure limit (PEL) is considered hazardous. OSHA has established a PEL of 5 mg/m<sup>3</sup> for worker exposure to air borne mists of mineral oils. Therefore, the presence of mineral oils brings this product within the provisions of the OSHA Hazard Communication Standard where the PEL reaches or exceeds 5 mg/m<sup>3</sup>. Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

## 12. ECOLOGICAL INFORMATION

**Components Ecotoxicity - Fish Species Data:** no data

**Ecotoxicity - Freshwater Algae Data:** No data

**Ecotoxicity - Water Flea Data:** No data

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility:** No data available

**Ozone:** No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products:**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:** Do not re-use empty containers

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

**RCRA - Hazardous Constituents - Appendix:** hazardous constituent - no waste number

## 14. TRANSPORT INFORMATION

**U. S. DEPARTMENT OF TRANSPORTATION:**

**TDG (CANADA):**Not Regulated

**IMDG/IMO:** Not Regulated

**Proper shipping name:** Not Regulated

**IATA/ICAO:** Not Regulated

**Proper shipping name:** Weapon Shield Grease

## 15. REGULATORY INFORMATION

**Federal Regulations**

**OSHA Hazard Communication**

**Standard:**

This product is considered to be non-hazardous under the OSHA Hazard Communication Standard.

**CERCLA/SARA Information:**

**SARA (311, 312) hazard class:**

**Immediate Health (Acute):** No

**Delayed Health (Chronic):** No

**Flammability:** No

**Pressure:** No

**Reactivity:** No

**Components Hazardous Substances and RQs**

**Extremely Hazardous Substances and TPQs SARA 313 Emission Reporting**

**CERCLA/SARA 313 Emission reporting:**

**Clean Air and Clean Water Acts:**

**Components Hazardous Air Pollutants**

**CWA - Hazardous Substances**

**CWA - Toxic Pollutants**

**CWA - Priority Pollutants**

**U.S. STATE REGULATIONS (RTK):** Components California Proposition 65

**PARTK MI Critical Materials NJRTK MARTK**

**California Proposition 65 Status:** May contain trace amounts of listed chemicals: silica

**RCRA Status:** Not regulated

**CANADIAN REGULATIONS: Canada - WHMIS Classification Information:**

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**Canadian Product Classification:** Not Regulated

**Product Classification Graphic(s):**

**Component Classification Data:**

**Components WHMIS hazard class CEPA Schedule I Challenge Substances**

**INVENTORY STATUS:**

**United States TSCA - Sect. 8(b) Inventory:** This product complies with TSCA

**Canada DSL/NDSL Inventory List** This product complies with DSL

## **16. OTHER INFORMATION**

**Sources of key data used to compile the data sheet:** Material safety data sheets of the ingredients.

**Prepared by:** Safety, Health and Environmental Department

**Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.**

### **Disclaimer**

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

**End of Safety Data Sheet**