



# SAFETY DATA SHEET

**POLYSI® Lubricants**  
**PST-1103**

Issued 10/11/18  
Revision 0 10/11/18

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PST-1103  
**Recommended Use:** Metal removal and forming (not for medical purposes)  
**Company:** Fuchs Lubricants Co.  
17050 Lathrop Avenue  
Harvey, Illinois 60426  
**Telephone:** 708-333-8900  
**Emergency Telephone:** 800-255-3924 (24 hrs)

## 2. HAZARDS IDENTIFICATION

**Classification:** This mixture is considered hazardous. Repeated ingestion of mixture can cause interference with sperm production, damage the testes and interfere with male fertility. Can cause allergic skin reaction/sensitization. Can cause severe eye and skin irritation.

**Labeling:** Symbol:



Signal Word: Warning!

Hazard statements: Causes serious eye irritation. Category 2A  
Harmful if swallowed  
May cause allergic skin reaction.

### Precautionary Statements:

Use personal protective equipment as required. Wear safety glasses and gloves.  
Do not ingest.  
Avoid contact with eyes.  
Avoid breathing spray. Use in well ventilated area.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Identity:** Biocides; 1 - 5%  
**CAS Number:** Proprietary mixture

**Chemical Identity:** Ethoxylated Alcohols; 3 - 7%  
**Common Name:** Proprietary mixture

**Chemical Identity:** Alkanolamines; 7 - 13%  
**Common Name:** Proprietary mixture

## 4. FIRST AID MEASURES

**Eye Contact:** If in eyes. Rinse cautiously with plenty of water. Remove contact lenses, if present and easy to do. Rinse for at least 15 minutes. If signs/symptoms persist, get medical attention. Obtain medical attention.



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**Skin Contact:** Wash affected area with soap and water. If signs/symptoms persist, get medical attention. No need for first aid is anticipated.

**Inhalation:** If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

**Ingestion:** If swallowed, **DO NOT** induce vomiting. If irritation or discomfort occurs, obtain medical assistance.

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## 5. FIRE FIGHTING MEASURES

**Autoignition Temperature:** Not determined

**Flash point:** > 101.1°C

**Flammable Limits (LEL)** Not determined

**Flammable Limits(UEL)** Not determined

**Suitable Extinguishing Media:** Water spray, fog, dry chemical, regular foam or carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards in case of fire:** Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for fire fighters:**

Move container from fire area, if possible. Avoid breathing vapors or dusts. Keep upwind. Use full firefighting gear (bunker gear). Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape air supply. Use any self contained breathing apparatus with a full face piece.

Alert fire brigade and indicate hazard location. Wear breathing apparatus plus protective clothing. Cool fire exposed containers with water spray from a protected location. Do not approach containers suspected to be hot. If safe to do so, remove containers from path of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use appropriate personal protection. (See section 8.)

**Environmental precautions:** For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

**Methods for material containment and cleaning up:** Observe precautions from other sections. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with an appropriate solvent. Seal the container.

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## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin, inhalation of mist, or ingestion. See section 8 for personal protection equipment. Practice good personal hygiene to prevent accidental ingestion after handling. Properly dispose of clothing that cannot be decontaminated.

**Conditions for safe storage, including any incompatibilities:** Store away from oxidizing materials. Store product in a closed container located in a dry area. Do not store in open, inadequate, or mislabeled packaging. Check that containers are clearly



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labeled. Use metal cans, metal drums, plastic, or lined fiber containers. Keep away from heat and flame.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** Recommended occupational exposure limit values are 5 mg/m<sup>3</sup> for mineral oil and triethanolamine.

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Processing may form hazardous compounds (see Section 10).

**Personal Protective Equipment (PPE):**

**Eyes:** Safety goggles recommended.

**Skin:** Impermeable gloves should be worn. Product is compatible with most elastomers.

**Inhalation:** No respiratory protection required under most conditions. If workplace concentrations are excessive, approved respiratory equipment must be used.

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## 9. CHEMICAL AND PHYSICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not available
<b>pH Value:</b>	< 11.5
<b>Melting Point:</b>	Not determined
<b>Freezing Point:</b>	0°C
<b>Initial Boiling Point:</b>	> 100°C
<b>Flash Point:</b>	101.1°C COC
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Explosion limits:</b>	Not available
<b>Vapor pressure:</b>	Not determined
<b>Vapor density:</b>	Not available
<b>Solubility:</b>	Soluble
<b>Specific Gravity:</b>	1.0 – 1.01
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not determined

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## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal ambient temperatures and pressures

**Possibility of hazardous reactions:** None under normal conditions.

**Conditions to avoid:** Avoid heat and contamination.

**Materials to avoid:** No data is available

**Hazardous decomposition products:** Thermal decomposition and combustion may liberate carbon dioxide and other toxic vapors and gases.

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## 11. TOXICOLOGICAL INFORMATION

(a) **acute toxicity** Estimate: calculated oral > 5,000 mg/kg; dermal > 2,000 mg/kg

(b) **skin corrosion/irritation** Can cause skin irritation

(c) **serious eye damage/irritation** Severely irritating to the eyes.



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- (d) **respiratory or skin sensitization** Biocides can cause skin sensitization  
(e) **germ-cell mutagenicity** Not a germ cell mutagen.  
(f) **carcinogenicity** Not a carcinogen.  
(g) **reproductive toxicity** Repeated ingestion of mixture can cause interference with sperm production, damage the testes and interfere with male fertility.  
(h) **aspiration hazard** Not applicable (not an aerosol/mist).

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### 12. ECOLOGICAL INFORMATION

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**Toxicity:**

The ecological effects are not established for this mixture. Highly recommended that material be prevented from entering waterways and soil.

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### 13. DISPOSAL PROCEDURES

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**Waste treatment methods:** Waste (substance and container material) shall be recycled/recovered or disposed of as applicable and in accordance with community (EU) and local legislation. Recycle wherever possible. Consult state land waste management authority for disposal. Bury at an approved site. Recycle containers if possible, or dispose of in an authorized landfill.

**According to the European Waste Catalogue**, Waste Codes are not product specific but application specific. Waste Codes should be assigned by the user based on the application in which the product is used.

**For USA Disposal:** Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

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### 14. TRANSPORT INFORMATION

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Class or Type: US DOT, IMO, ADR, RID, ADN, IMDG, and IATA: Not a dangerous good

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### 15. REGULATORY INFORMATION

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**Safety, health and environmental regulations/legislation specific for the mixture:**

**Other Information:**

**U. S. Regulatory information**

TSCA Inventory Status:	All ingredients listed or exempt
TSCA 12 (b) Export Notification:	Not listed
CERCLA Section 103 (40 CFR 302.4):	N
SARA Section 302 (40 CFR 355.30):	N
SARA Section 304 (40 CFR 355.40):	N
SARA Section 313 (40 CFR 372.65):	N
OSHA Process Safety (29 CFR 1910.119):	N
SARA Hazard Categories, SARA Sections 311/312 (40 CFR 370.21) -	
Acute Hazard:	Y
Chronic Hazard:	N
Fire Hazard:	N
Reactivity Hazard:	N
Sudden Release Hazard:	N

**State Regulations:**

California Proposition 65: Warning! This product does not contain any chemical known in the state of California to cause cancer.





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Chemical Inventories:

DSL (Canada)

All ingredients listed or exempt

EINECS (European Union)

All ingredients listed or exempt

ENCS/ISHL (Japan)

All ingredients listed or exempt

IECSC (Peoples Republic of China)

All ingredients listed or exempt

TSCA (United States of America)

All ingredients listed or exempt

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### 16. OTHER INFORMATION

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NFPA Hazard Classification:

Health: 1

Flammability: 1

Reactivity: 0

Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency personnel to address the hazards that are presented by short-term, acute exposure to material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification:

Health: 1

Flammability: 1

Reactivity: 0

Protection: B (See PPE section)

Hazardous Material Identification System (HMIS) hazard ratings are designed to inform employees of chemical hazards in the workplace. The ratings are based on inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations.

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.