



# SAFETY DATA SHEET

**POLYSI® Lubricants**  
**PST-416**

Issued 09/7/17  
Revision 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PST-416  
**Recommended Use:** Lubricant (not for incidental food contact or 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:** Eye Damage/Eye Irritation: Category 2B  
Skin Irritation: Category 2  
Chronic Aquatic Toxicity: Category 2

**Labeling:** Symbol:



Signal Word: Warning

Hazard statements:  
May be harmful if swallowed  
May cause eye irritation  
May cause skin irritation  
Toxic to aquatic life with long lasting effects

### Precautionary Statements:

Use personal protective equipment as required. Wear safety glasses and gloves.  
Wash thoroughly after handling with plenty of soap and water.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Identity:** Antimony tris (dialkyldithiocarbamate), <3%  
**Common Name:** Antimony dialkyldithiocarbamate  
**CAS Number:** Not assigned  
**Impurities:** No information provided by manufacturer  
**Chemical Identity:** Zinc diamyldithiocarbamate, <1.0%  
**Common Name:** Zinc diamyldithiocarbamate  
**CAS Number:** 15337-18-5  
**Impurities:** No information provided by manufacturer

This product contains no other hazardous components above reportable concentrations.

## 4. FIRST AID MEASURES

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



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**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

**Auto ignition Temperature:** unknown

**Flash point:** >250°C

**Flammable Limits (LEL)** Not determined

**Flammable Limits(UEL)** Not determined

**Suitable Extinguishing Media:** On large fires used dry chemical, foam. On small fires use carbon dioxide, dry chemical. Water can be used to cool fire exposed containers.

**Unsuitable Extinguishing Media:** None.

**Specific hazards in case of fire:** Toxic gases will form upon combustion. Decomposes on heating and produces incompletely burned carbon compounds, phosphorous oxides, and hydrogen sulfide. Avoid reaction with oxidizers.

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

No acute hazard. 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.)

Avoid dust formation. Remove all sources of ignition.

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

**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.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** Under most handling conditions, this product will not generate mist or dust.

**Engineering Controls:** In most conditions, no special local ventilation is needed. General ventilation recommended. If the product is atomized ventilation should be used.

**Personal Protective Equipment (PPE):**

**Eyes:** Safety glasses recommended.

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

**Inhalation:** No respiratory protection required under most conditions. If concentrations exceed exposure limits, approved respiratory equipment must be used.

### 9. CHEMICAL AND PHYSICAL PROPERTIES

<b>Physical state:</b>	Semi-fluid. Slight grainy appearance.
<b>Color:</b>	Black
<b>Odor:</b>	Mild glycol
<b>Odor Threshold:</b>	Not available
<b>pH Value:</b>	Not applicable
<b>Melting Point:</b>	Not available
<b>Freezing Point:</b>	Becomes very stiff with decreasing temperature around -15°C
<b>Initial Boiling Point:</b>	>250°C
<b>Flash Point:</b>	>250°C COC (Base oil)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Explosion limits:</b>	Not available
<b>Vapor pressure:</b>	<0.01 mmHg at 20°C
<b>Vapor density:</b>	>1 (base oil, calculated)
<b>Solubility:</b>	<0.1% at 20°C
<b>Partition coefficient:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available

### 10. STABILITY AND REACTIVITY

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

**Possibility of hazardous reactions:** Can react with strong oxidizers. Other hazardous reactions have not been identified. Otherwise will not react or polymerize.

**Conditions to avoid:** No specific conditions to avoid have been identified.

**Materials to avoid:** Oxidizers.

**Hazardous decomposition products:** Decomposes on heating and produces incompletely burned carbon compounds.

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

**Zinc diamylidithiocarbamate and Hydrotreated heavy naphthenic oil:**

Ingestion LD<sub>50</sub>, Rat 14,900 mg/kg, Dermal LD<sub>50</sub>, Rabbit >2000 mg/kg, Not irritating to rabbit skin or eyes.



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### 12. ECOLOGICAL INFORMATION

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**Toxicity:**

Ecological toxicity has not been established. Material should not 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: Non-hazardous

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### 15. REGULATORY INFORMATION

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

**Worldwide Chemical Inventories and lists:** Exempt

**Other regulatory information:** Germany (base on read across) Water Hazard class, WGK = 1 (low hazard to water)

**Chemical safety assessment:** Exempt

**Other Information:**

**U. S. Regulatory information**

TSCA Inventory Status: Y or exempt

CEPA Inventory Status: Y 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:** Not on California Proposition 65 list. Does not contain any contaminants or by-products known to the State of California to cause cancer or reproductive toxicity.



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**Note** – There are no known safety, health or environmental restrictions or prohibitions in any country where this product is produced, imported or marketed.

#### Chemical Inventories:

DSL (Canada)

All ingredients listed or exempt

EINECS (European Union)

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: 1

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: 1

Protection: E (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.