



# Safety Data Sheet

Issue Date: 10-Jul-2025

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** SPX SYN R&O  
ISO Grade 32, 46

### Other means of identification

**SDS #**

**Product Code**

### Recommended use of the chemical and restrictions on use

**Recommended Use** Hydraulic fluid.

### Details of the supplier of the safety data sheet

#### Supplier Address

Pilot Thomas Logistics  
1051 Mustang Dr. Suite 600  
Grapevine, TX 76051

### Emergency Telephone Number

**Company Phone Number** 844-785-8326  
**Emergency Telephone (24 hr)** 1-800-633-8253 CUSTOMER # 1898

## 2. HAZARDS IDENTIFICATION

**Appearance** Light to dark amber liquid

**Physical state** Liquid

**Odor** Mild petroleum

### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

**GHS Label elements** : None

### Other hazards

Toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Refined Petroleum Oils	Proprietary	>95
Proprietary Additive	Proprietary	<5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

\* Contains one or several synthetic oils with the following CAS#: 64742-54-7, 64742-55-8, 64742-58-1, 64742-62-7, 64742-65-0

## 4. FIRST-AID MEASURES

### First Aid Measures

<b>General Advice</b>	If exposed or concerned: Get medical advice/attention.
<b>Eye Contact</b>	Flush thoroughly with water. If irritation occurs, call a physician.
<b>Skin Contact</b>	Wash contact areas with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	If uncomfortable, seek medical assistance.

### Most important symptoms and effects

<b>Symptoms</b>	Contact with heated material may cause thermal burns to the eyes. Material expected to cause no more than minor skin irritation following prolonged and/or repeated contact. Breathing mineral oil mist at levels above the TLV may cause respiratory irritation and possible discomfort. Elevated mist concentration above applicable workplace exposure levels may cause lung damage. Upon ingestion of large quantities, slight gastrointestinal discomfort, diarrhea and headache may occur. Small doses may produce irritation and/or diarrhea.
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### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Injection under the skin, in muscle or into the blood stream can cause irritation, inflammation, swell or serious, permanent tissue damage.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Water spray (fog).

**Unsuitable Extinguishing Media** Water may be ineffective in fighting an oil fire unless used by experienced fire fighters.

### Specific Hazards Arising from the Chemical

Not determined.

**Hazardous Combustion Products** Carbon oxides and various hydrocarbons formed when burned. Trace amounts of sulfur, phosphorus, nitrogen and zinc oxides.

### Explosion Data

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of all unnecessary personnel. Shut off source, if possible. Use water spray or fog to keep containers cool. For large storage fires involving this material and/or other lubricating products, DO NOT enter enclosed or confined space without full protective equipment including self-contained breathing apparatus (SCBA).

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Use personal protective equipment as required. Provide adequate ventilation.
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### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment** Shut off source, if possible.

**Methods for Clean-Up** Clean up spills immediately. Absorb large spills with commercially available absorbent materials, such as absorbent clay or other dry inert materials. Keep out of water sources and sewers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in an adequate ventilated area to control exposure. Avoid water contamination and extreme temperatures to minimize product degradation.

**Incompatible Materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Additive	TWA: 200 mg/m <sup>3</sup> total hydrocarbon vapor application restricted to conditions in which there are negligible aerosol exposures S*	-	TWA: 100 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Chemical face shield or protective goggles can reduce the possibility of accidental eye contact.

**Skin and Body Protection** Impervious protection gloves can minimize skin exposures where prolonged or repeated exposures can occur.

**Respiratory Protection** Not applicable for intended use. However, if unusual operating conditions create mist concentrations in excess of the TLV, an approved NIOSH/MSHA respirator is recommended.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid	Odor	Mild petroleum
Appearance	Light to dark amber liquid	Odor Threshold	Not determined
Color	Light to dark amber		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	Not determined		
Flash Point	> 196 °C / 385 °F		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid- Not Applicable		
Flammability Limits in Air			
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Relative Density	0.855-0.895		
Water Solubility	Not determined		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	32 - 46 cSt	@ 40°C (104°F)	
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to Avoid

Extreme heat, open flames or sparks.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon oxides and various hydrocarbons formed when burned. Traces of sulfur, phosphorus, nitrogen, and zinc oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	Do not ingest.

### Component Information

Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Refined Petroleum Oils	> 2000 mg/kg ( Rat )	> 4480 mg/kg ( Rabbit )	-
Proprietary Additive	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h

### Information on physical, chemical and toxicological effects

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary Additive	A3	Group 3		

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	2,008.00 mg/kg
<b>ATEmix (dermal)</b>	4,497.61 mg/kg mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Refined Petroleum Oils		79.6: 96 h Brachydanio rerio mg/L LC50 semi-static 3.2: 96 h Pimephales promelas mg/L LC50 semi-static	

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Refined Petroleum Oils	X	X	X		X	Present	X	X
Proprietary Additive	X	X	X		X	Present	X	X

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations**

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Proprietary Additive	X	X	X

## 16. OTHER INFORMATION

### **NFPA**

#### **Health Hazards**

1

#### **Flammability**

1

#### **Instability**

0

#### **Special Hazards**

Not determined

### **HMIS**

#### **Health Hazards**

Not determined

#### **Flammability**

Not determined

#### **Physical hazards**

Not determined

#### **Personal Protection**

Not determined

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### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**