

According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Trade name:** - P-15-S-0,25 / Esteroil / Viscosity 15mm/sec at 40°C / 9881846

- P-15-S-1 / Esteroil / Viscosity 15mm/sec at  $40^{\circ}$ C / 9885004

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance/ the preparation: Hydraulic fluid

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

REFCO Manufacturing Ltd. Industriestrasse 11 | 6285 Hitzkirch Switzerland

Tel. +41 41 919 72 82| Fax +41 41 919 72 83 |

E-Mail: info@refco.ch

### 1.4 Emergency telephone number

Schweizerisches Toxikologisches Informationszentrum Zürich Telephone number in urgent matters: 145 or +41 44 251 51 51

Not urgent matters: +41 44 251 66 66

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or Directive 1999/45/EC

The product has not been classified as hazardous and does not need to be labelled according to regulation (EU) no 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

**Hazard summary** 

Physical Hazards: No data available.

#### 2.2 Label elements

EUH208: Contains Triazole amine derivative. May produce an allergic reac-tion.

EUH210: Safety data sheet available on request.

### 2.3 Other hazards

By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

General information: Mixture based on biodegradable ester compounds in combination with special

additives.

REFCO Manufacturing Ltd. Industriestrasse 11 6285 Hitzkirch - Switzerland

Telefon +41 41 919 72 82 Telefax +41 41 919 72 83 info@refco.ch www.refco.ch Certified:

ISO 9001 / ISO 14001

Seite 1/9



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

Chemical name	Identifier		REACH Registra- tion No.	Notes
Triazole amine derivative	EC: 401-280-0	0,01% - <0,10%	01-2119930450-49	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.

#### Classification

Chemical name	dentifier	Classification	
Triazole amine derivative E	EC: 401-280-0		Skin Corr. 1B;H314, Skin Sens. 1A;H317, Aquatic Chronic 1;H410, Eye Dam. 1;H318

CLP: Regulation No. 1272/2008.

### \* 4. FIRST AID MEASURES

General: Instantly remove any clothing soiled by the product.

## 4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

# 4.2 Most important symptoms and effects, both acute and delayed:

May cause skin and eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

# \* 5. FIREFIGHTING MEASURES

# 5.1 Extinguishing media

# Suitable extinguishing agents:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable tensides added.

### For safety reasons unsuitable extinguishing agents:

Water with a full water jet.

## 5.2 Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

vPvB: very persistent and very bioaccumulative substance.



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

# 5.3 Advice for firefighters

#### **Special firefighting procedures:**

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated firefighting water inaccordance with official regulations. Collect contaminated firefighting water separately. It must not enter drains.

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## \* 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

In case of spills, beware of slippery floors and surfaces.

#### 6.2. Environmental precautions

Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

### 6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

# \* 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Pro-vide adequate ventilation.

## 7.2 Conditions for safe storage, including any incompatibilities

Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.

### 7.3 Specific end use(s)

No data available

Storage Class: 10, Combustible liquids



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure Limits: None of the components have assigned exposure limits.

### 8.2 Exposure Controls

### Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain air-borne levels to an acceptable level.

# Individual protection measures, such as personal protective equipment

General protective and

Hygienic measures: Wash hands before breaks and after work. Use personal protective equipment as

required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or

the mineral oil products.

**Breathing** 

**Equipment:** In case of inadequate ventilation use suitable respirator. Seek advice from local

supervisor. Avoid breathing vapour/ aerosol.

**Protection of Hands:** Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recom-mended by the

glove supplier. Use skin protection cream for preventive skin protection. Protective  $\,$  . gloves, where permitted in acc. to safety direc-tions. The exact break through time has to

be found out by the manufactur-er of the protective gloves and has to be observed.

Eye protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with skin and eyes.

Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face

shield.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-ets. Wear .

suitable protective clothing.

**Body protection:** Protective work clothing.

Thermal hazards: No data available.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing to



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Environmental Controls:** No data available.

# \* 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Physical state	Liquid	
Form	Liquid	
Colour	Yellow	
рН	substance/mixture is non-soluble (in water)	
Freezing point:	not determined	
Boiling Point:	not determined	
Flash Point:	156 °C	
Evaporation Rate:	Not applicable for mixtures	
Flammability (solid, gas):	not determined	
Flammability Limit - Upper (%)-:	Not applicable for mixtures	
Flammability Limit - Lower (%)-:	Not applicable for mixtures	
Vapor pressure:	Not applicable for mixtures	
Relative vapor density:	Not applicable for mixtures	
Density:	0,90 g/ml (15,00 °C)	
Solubility(ies)		
Solubility in Water:	Insoluble in water	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	Not applicable for mixtures	
Autoignition Temperature:	not determined	
Decomposition Temperature:	not determined	
Kinematic viscosity:	14,8 mm2/s (40,00 °C)	
Explosive properties:	Value not relevant for classification	
Oxidizing properties:	Value not relevant for classification	
Particle characteristics:	Not applicable	

# 9.32 other information

No data available

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

Stable under normal use conditions.

# 10.2 Chemical stability

Stable under normal use conditions.



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

# 10.3 Possibility of hazardous reactions

Stable under normal use conditions.

## 10.4 Hazardous decomposition products

Stable under normal use conditions.

### 10.5 Incompatible Materials

Strong oxidizing substances. Strong acids. Strong bases.

### 10.6 Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### **Acute toxicity**

Oral: Not classified for acute toxicity based on available data.

Dermal: Not classified for acute toxicity based on available data.

Inhalation: Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:Based on available data, the classification criteria are not met.Serious Eye Damage/Eye Irritation:Based on available data, the classification criteria are not met.Respiratory or Skin Sensitization:Based on available data, the classification criteria are not met.

#### **Germ Cell Mutagenicity**

Based on available data, the classification criteria are not met.

# Carcinogenicity

**Product**: Based on available data, the classification criteria are not met.

Reproductive toxicity

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Aspiration Hazard** 

**Product:** Based on available data, the classification criteria are not met.

Other adverse effects: No data available.



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

# Aquatic toxicity:

Based on available data, the classification criteria are not met

# **Chronic Toxicity**

Based on available data, the classification criteria are not met

# 12.2 Persistence and degradability

## **Biodegradation**

Not applicable for mixtures.

# 12.3 Bioaccumulative potential

Not applicable for mixtures.

# 12.4 Mobility in soil

Not applicable for mixtures.

### 12.5 Results of PBT and vPvB assessment

The product does not contain any substances fulfilling the PBT/vPvB criteria.

### 12.6 Other Adverse Effects

No data available.

Water Hazard Class (WGK): WGK1: slightly water-endangering.

## \* 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe way. When storing

used products, ensure that the waste categories and mixing instructions are observed.

European Waste Codes: 13 01 12\*: readily biodegradable hydraulic oils

# 14. TRANSPORT INFORMATION

# Land transport ADR/RID and GGVSEB (cross-border/domestic):

ADR/RID-GGVSEB Class:

# Maritime transport IMDG/GGVSea:

REFCO Manufacturing Ltd. Industriestrasse 11 6285 Hitzkirch - Switzerland

Telefon +41 41 919 72 82 Telefax +41 41 919 72 83 info@refco.ch www.refco.ch

Certified:

ISO 9001 / ISO 14001

Seite 7/9



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

IMDG/GGVSea Class:

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA-Class: -

Special precautions for user: Not applicable.

### **Transport/ Additional information:**

No dangerous good acc. to dangerous goods/ transport directions.

## \* 15. REGULATORY INFORMATIONS

# 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

# 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

### **EU Regulations**

EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Sub-stances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

# Water Engendering Class 1 (Self-assessment): slightly hazardous for Water.

Substances of very high concern (SVHC) according to REACH, Article 31 out of the recent list: none

## 15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

# \* 16. OTHER INFORMATION

# Wording of the R-phrases and H-statements in section 2 and 3

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

### Other information:

The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: - On the basis of test data - Calculation Method - Bridging Principle "Substantially simi-lar mixtures" - Expert Judgement

#### Revision Date: 30.09.2021

### Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be de-duced from the data contained in this safety data

REFCO Manufacturing Ltd. Industriestrasse 11 6285 Hitzkirch - Switzerland

Telefon +41 41 919 72 82 Telefax +41 41 919 72 83

info@refco.ch www.refco.ch Certified:

ISO 9001 / ISO 14001

Seite 8/9



According to 1907/2006/EC, Article 31, Annex II as amended.

Substance: Esteroil Revision: 30.09.2021, Version 3.1

sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of pro-cessing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no sig-nature. allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.

End of the document