

# Material Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 – Switzerland

Substance: Compressor ester oil P-17-S

Stand: 04.01.2023 Rev.-Nr. 1

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

#### 1.1 Product identifier

Trade name: Part. No. 4503376 / P-17-S-0,25 and 4503384 P-17-S-1 / Compressor ester oil (P-17-S-200)

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

No further relevant information available.

#### Application of the substance / the preparation:

For industrial use only

Lubricant

Compressor lubricant

#### 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

Swiss toxicologically information centre Zurich

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

**Product definition: Mixture** 

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Signal word: No signal word.

Hazard statements: No known significant effects or critical hazards.

#### **Precautionary statements**

Prevention: Not applicable
Response: Not applicable
Starage: Not applicable
Disposal: Not applicable

Supplemental label elements: Not applicable

# Annex XVII-Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### Other hazards which do not result in classification

None known.



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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures: Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### Eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Avoid breathing vapour or mist. Get medical attention if symptoms occur.

#### Skin contact:

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

#### Ingestion:

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Protection of first-aiders:

No action shall be taken involving any personal risk or without suitable training.

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

Eye contact: No specific data. No specific data. Inhalation: Skin contact: No specific data. Ingestion: No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician:

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Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### Specific treatments:

No specific treatment.



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### \* 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing agents: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

#### 5.2 Special hazards arising from the substance or mixture

#### Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

#### **Hazardous combustion products**

No specific data.

#### 5.3 Advice for fire-fighters

#### Protective equipment:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### 6. ACCIDENTAL RELEASE MEASURES (continue)

# 6.1 Personal precautions, protective equipment and emergency procedures For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

#### For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions:

Avoid dispersal of spilt 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).

# 6.3 Methods and material for containment and cleaning up Small spill:

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill:

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

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#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

#### **Protective measures:**

Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: -10 to 40°C (14 to 104°F). Shelf life: 36 months. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Further information about storage conditions:

Storage class: 10

#### 7.3 Specific end use(s)

Recommendations: Not available. Industrial sector specific solutions: Not available.

#### | 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### Occupational exposure limits:

No exposure limit value known.

#### Biological exposure indices:

No exposure limit value known.

#### **Recommended monitoring Procedures:**

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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#### DNELs/DMELs

No DNELs/DMELs available.

#### **PNFCs**

No PNECs available

#### 8.2 Exposure controls

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures:

#### Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection:

#### Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### **Body protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved before handling this product.

#### Other skin protection:

Appropriate footwear and any additional skin protection measures should beselected based on the task being performed and the risks involved before handling this product.

### Respiratory protection:

A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

#### **Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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#### \* 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance / Form                                | Fluid                          |  |  |
|--|--------------------------------|--|--|
| Colour   | Light yellow                   |  |  |
| Odour  | Characteristic.                |  |  |
| Odour threshold                                  | Not applicable                 |  |  |
| рН   | Not applicable                 |  |  |
| Melting point / Melting range                    | Not applicable                 |  |  |
| Boiling point / Boiling range                    | Not applicable                 |  |  |
| Flash point                                      | Open cup: 292 °C               |  |  |
| Evaporation rate                                 | Not applicable                 |  |  |
| Flammability (solid, gas)                        | Not applicable                 |  |  |
| Upper/lower flammability or explosive limits     | Not applicable                 |  |  |
| Density  | 0.929 g/cm <sup>3</sup> [20°C] |  |  |
| Solubility in / Miscibility with water:          | Not applicable                 |  |  |
| Partition coefficient: n-octanol/water (log POW) | Not applicable                 |  |  |
| Auto-ignition temperature                        | Not applicable                 |  |  |
| Decomposition temperature                        | Not applicable                 |  |  |
| Viscosity  | Kinematic (40°C) 43.8 mm²/s    |  |  |
| Oxidising properties                             | Not available                  |  |  |
| Vapour pressure                                  | Not available                  |  |  |
| Vapour density                                   | Not available                  |  |  |
| Explosive properties                             | Not available                  |  |  |
| Oxidising properties                             | Not available                  |  |  |
| Particle characteristics<br>Median particle size | Not applicable                 |  |  |

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

#### 10.2 Chemical stability

Shelf life: 36 months.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

No specific data.

## 10.5 Incompatible materials

No specific data.

#### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Conclusion/Summary: Not available.

#### **Acute toxicity estimates**

N/A

Irritation/Corrosion

Conclusion/Summary: Not available.

**Sensitisation** 

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Mutagenicity

Conclusion/Summary: Not available.

**Teratogenicity** 

**Conclusion/Summary:** Not available.

Reproductive toxicity

Conclusion/Summary: Not available

#### Specific target organ toxicity (single exposure)

Not available

### Specific target organ toxicity (repeated exposure)

Not available

#### **Aspiration hazard**

Not available.

## Information on likely routes of exposure

Not available.

#### Potential acute health effects

**Eye contact:** No known significant effects or critical hazards. **Inhalation:** No known significant effects or critical hazards. **Ingestion:** No known significant effects or critical hazards. **Skin contact:** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data. Skin contact: No specific data. Ingestion: No specific data. Inhalation: No specific data.





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

Short term exposure

Potential immediate effects: Not available. Potential delayed effects: Not available.

#### Long term exposure

Potential immediate effects: Not available. Potential delayed effects: Not available.

#### Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards. **Mutagenicity:** No known significant effects or critical hazards.

Reproductive toxicity: No known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

#### \* 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Conclusion/Summary: Not available.

### 12.2 Persistence and degradability

Conclusion/Summary: Not available.

#### 12.3 Bio accumulative potential

Not available.

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc): Not available.

Mobility: Not available.

#### Additional ecological information / General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Encodrine disrupting propertiers

Not available.

#### 12.7 Other adverse effects

Not available.



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#### 13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

#### Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Yes.

#### European waste catalogue (EWC)

13 01 12\* readily biodegradable hydraulic oils

#### Packaging:

#### Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### Special precautions:

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### 14. TRANSPORT INFORMATION

|                    | ADR/RID        | AND            | IMDG           | IATA           |
|--------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| ID number          |                |                | -              |                |
| 14.2 UN proper     | -              | -              | -              | -              |
| shipping name      |                |                |                |                |
| 14.3 Transport     | -              | -              | -              | -              |
| hazard class(es)   |                |                |                |                |
| 14.4 Packing group | -              | -              | -              | -              |
| 14.5 Enviromental  | No.            | No.            | No.            | No.            |
| hazards            |                |                |                |                |

#### 14.6 Special precautions for user:

**Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Martime transport in bulk according to IMO instruments:

Not available.



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#### 15. REGULATORY INFORMATIONS

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV:

None of the components are listed.

Substances of very high concern

None of the components are listed.

Other EU regulations Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

VOC content Industrial emissions (integrated pollution prevention and control) - Air

Not listed

Industrial emissions (integrated pollution prevention and control) - Water

Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

National regulations

VOC content: Exempt.

Hazardous liquids for water: Class B

References:

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.





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### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### 15.2 Chemical safety Assessment

No Chemical Safety Assessment has been carried out.

#### **16. OTHER INFORMATION**

\*Indicates information that has changed from previously issued version.

#### Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

#### Full text of abbreviated H statements

Not applicable.

#### Full text of classifications [CLP/GHS]

Not applicable.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**End of document**