

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name:** ALUB SYN S

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

**Identified uses:** Compressor oil

**Uses advised against:** No uses advised against identified.

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

**Manufacturer** ALMiG Kompressoren GmbH  
Adolf-Ehmann-Strasse 2  
73257 Köngen

**Telephone:** +49 7024 9614-0 (ZENTRALE)  
**Fax:** +49 7024 9614-106

**Contact Person:** ALMiG Kompressoren GmbH Abteilung Service  
**Telephone:** +49 7024 9614-250  
**Fax:** +49 7024 9614-175  
**e-mail:** service@almig.de

**1.4 Emergency telephone number:** 01805 - 258700

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to the legislation in force.

##### Hazard summary

**Physical 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.

**Environmental hazards:** This product is water polluting; see item 12.

#### 2.2 Label elements

Safety data sheet available for professional user on request.

**2.3 Other hazards:** No data available.

Product name: ALUB SYN S

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**General information:** Mixture of synthetic base oils with additives.

| Chemical name               | Concentration * | Identifier   | REACH<br>Registration No. | Notes |
|-----------------------------|-----------------|--------------|---------------------------|-------|
| phosphoric ester derivative | >=0,10 - <1,00% | Confidential | Confidential              |       |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#### Classification

| Chemical name               | Classification |                                                             |
|-----------------------------|----------------|-------------------------------------------------------------|
| phosphoric ester derivative | DSD:           | Xi; R36/38 N; R51/53                                        |
|                             | CLP:           | Skin Irrit. 2;H315, Eye Dam. 2;H319, Aquatic Chronic 2;H411 |

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

The full text for all R- and H-phrases is displayed in section 16.

### SECTION 4: First aid measures

**General:** Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

#### 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. The product is not skin irritating.

**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

**Hazards:** No data available.

**Treatment:** Get medical attention if symptoms occur.

### SECTION 5: Firefighting measures

**Product name:** ALUB SYN S

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable tensides added

**Unsuitable extinguishing media:** 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.

### 5.3 Advice for firefighters

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 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).

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

**6.4 Reference to other sections:** No dangerous decomposition substances known

## SECTION 7: Handling and storage:

**7.1 Precautions for safe handling:** Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits**  
None of the components have assigned exposure limits.

### 8.2 Exposure controls

**Product name:** ALUB SYN S

**Appropriate engineering controls:** No data available.

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

**General information:** 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.

**Eyeface protection:** Safety glasses (EN 166) recommended during refilling.

**Skin protection**  
**Hand protection:** Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Other:** Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/ aerosol.

**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 remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Environmental Controls:** No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance**

|                                   |                    |
|-----------------------------------|--------------------|
| <b>Physical State:</b>            | Liquid             |
| <b>Form:</b>                      | Liquid             |
| <b>Color:</b>                     | Blue               |
| <b>Odor:</b>                      | Characteristic     |
| <b>Odor Threshold:</b>            | No data available. |
| <b>pH:</b>                        | Not applicable     |
| <b>Freezing point:</b>            | No data available. |
| <b>Boiling Point:</b>             | Not applicable     |
| <b>Flash Point:</b>               | 240 °C             |
| <b>Evaporation Rate:</b>          | No data available. |
| <b>Flammability (solid, gas):</b> | No data available. |

**Product name:** ALUB SYN S

|                                                 |                               |
|-------------------------------------------------|-------------------------------|
| <b>Flammability Limit - Upper (%)—:</b>         | No data available.            |
| <b>Flammability Limit - Lower (%)—:</b>         | No data available.            |
| <b>Vapor pressure:</b>                          | No data available.            |
| <b>Vapor density (air=1):</b>                   | No data available.            |
| <b>Density:</b>                                 | 0,8450 g/ml (15,00 °C)        |
| <b>Solubility(ies)</b>                          |                               |
| <b>Solubility in Water:</b>                     | Insoluble in water            |
| <b>Solubility (other):</b>                      | No data available.            |
| <b>Partition coefficient (n-octanol/water):</b> | No data available.            |
| <b>Autoignition Temperature:</b>                | No data available.            |
| <b>Decomposition Temperature:</b>               | No data available.            |
| <b>Kinematic viscosity:</b>                     | 46 mm <sup>2</sup> /s (40 °C) |
| <b>Flow time</b>                                | No data available.            |
| <b>Explosive properties:</b>                    | No data available.            |
| <b>Oxidizing properties:</b>                    | No data available.            |
| <b>9.2 Other information</b>                    | No data available.            |

## SECTION 10: Stability and reactivity

|                                                 |                                                                                                 |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity:</b>                         | Stable under normal temperature conditions and recommended use.                                 |
| <b>10.2 Chemical stability:</b>                 | No data available.                                                                              |
| <b>10.3 Possibility of hazardous reactions:</b> | None under normal conditions.                                                                   |
| <b>10.4 Conditions to avoid:</b>                | Avoid heat or contamination.                                                                    |
| <b>10.5 Incompatible materials:</b>             | Strong oxidizing substances. Strong acids. Strong bases.                                        |
| <b>10.6 Hazardous decomposition products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute Toxicity

##### Oral

|                               |                            |
|-------------------------------|----------------------------|
| <b>Product:</b>               | No data available.         |
| <b>Specified substance(s)</b> |                            |
| phosphoric ester derivative   | LD 50 (Rat): > 2.000 mg/kg |

##### Dermal

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Product name:** ALUB SYN S

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**Specified substance(s)**  
phosphoric ester  
derivative LD 50 (Rat): > 2.000 mg/kg

**Inhalation**  
**Product:** No data available.

**Specified substance(s)**  
phosphoric ester  
derivative No data available.

**Repeated dose toxicity**  
**Product:** No data available.

**Specified substance(s)**  
phosphoric ester  
derivative No data available.

**Skin corrosion/irritation:**  
**Product:** No data available.

**Specified substance(s)**  
phosphoric ester  
derivative No data available.

**Serious eye damage/eye  
irritation:**  
**Product:** No data available.

**Specified substance(s)**  
phosphoric ester  
derivative No data available.

**Respiratory or skin  
sensitization:**  
**Product:** No data available.

**Specified substance(s)**  
phosphoric ester  
derivative No data available.

**Product name:** ALUB SYN S

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**Germ cell mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s)**

phosphoric ester  
derivative No data available.

**In vivo**

**Product:** No data available.

**Specified substance(s)**

phosphoric ester  
derivative No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

phosphoric ester  
derivative No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

phosphoric ester  
derivative No data available.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specified substance(s)**

phosphoric ester  
derivative No data available.

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Specified substance(s)**

phosphoric ester  
derivative No data available.

**Aspiration hazard**

**Product:** No data available.

**Specified substance(s)**

phosphoric ester  
derivative No data available.

**Other adverse effects:**

No data available.

Product name: ALUB SYN S

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

##### Specified substance(s)

phosphoric ester  
derivative LC 50 (Fish, 96 h): 5,5 mg/l

##### Aquatic invertebrates

**Product:** No data available.

##### Specified substance(s)

phosphoric ester  
derivative EC 50 (Water Flea, 48 h): 1,2 mg/l

#### Chronic Toxicity

##### Fish

**Product:** No data available.

##### Specified substance(s)

phosphoric ester  
derivative No data available.

##### Aquatic invertebrates

**Product:** No data available.

##### Specified substance(s)

phosphoric ester  
derivative No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Specified substance(s)

phosphoric ester  
derivative No data available.

### 12.2 Persistence and degradability

#### Biodegradation

**Product:** No data available.

##### Specified substance(s)

phosphoric ester  
derivative No data available.

#### BOD/COD ratio

**Product** No data available.

**Product name:** ALUB SYN S

**Specified substance(s)**  
phosphoric ester  
derivative      No data available.

### 12.3 Bioaccumulative potential

**Product:**      No data available.

**Specified substance(s)**  
phosphoric ester  
derivative      No data available.

**12.4 Mobility in soil:**      No data available.

### Known or predicted distribution to environmental compartments

phosphoric ester derivative      No data available.

**12.5 Results of PBT and vPvB assessment:**      No data available.

phosphoric ester derivative      No data available.

**12.6 Other adverse effects:**      No data available.

## SECTION 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 11\*: synthetic hydraulic oils

## SECTION 14: Transport information

This material is not subject to transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

## SECTION 15: Regulatory information

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

**15.2 Chemical safety assessment:**      No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**Revision Information:**      Vertical lines in the margin indicate an amendment.

**Product name:** ALUB SYN S

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

|        |                                                                                             |
|--------|---------------------------------------------------------------------------------------------|
| H315   | Causes skin irritation.                                                                     |
| H319   | Causes serious eye irritation.                                                              |
| H411   | Toxic to aquatic life with long lasting effects.                                            |
| R36/38 | Irritating to eyes and skin.                                                                |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

**Training information:** Follow training instructions when handling this material.

**Revision date:** 16.01.2015

**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 deduced from the data contained in this safety data 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 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.