



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH)

V2.2 | 10/02/2025

SECTION 1: ARTICLE, PREPARATION, COMPANY

PRODUCT INFORMATION:

Trade name:	SAMNOS AL
Use of the substance/mixture:	Lubricant
Uses that are not recommended:	Currently no uses advised against have been identified.
Company:	HPM Technologie GmbH Paul-Lechler-Straße 21 DE- 72581 Dettingen
Telephone:	+49 (0) 7123 88039-10
e-mail:	info@hpmtechnologie.de
Internet:	www.hpmtechnologie.de
Providing information:	Department: QM/UM

SECTION 2: POTENTIAL HAZARDS

Hazard designation:	Not applicable
Information concerning particular hazards for human and environment:	The product is not subject to labelling according to the calculation method of the "General Classification guideline for preparations of the EC" in the latest valid version.
Classification system:	The product is not subject to labelling according to the calculation method of the "General EC Classification Guidelines for Preparations" in the latest valid version.
Other hazards:	This substance/mixture contains no components in concentrations of 0.1% or more, higher, which are classified as either persistent, bioaccumulative and toxic (PBT) or very persiste(SVHC). and very bioaccumulative (vPvB). Environmental information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more. Toxicological information: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation:	Formulated from water-miscible fatty alcohol derivatives. Free from sulphur, chlorine, zinc, heavy metals, etc.
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HAZARDOUS INGREDIENTS	QUANTITY [%]	CLASSIFICATION REGULATION (EC) NO. 1272/2008)	
		HAZARD CLASS/ HAZARD CATEGORY	HAZARD WARNINGS
Octylphosphonic acid CAS no: 4724-48-5 REACH registration: 01-2119970569-20-0006	<=0,3	Acute Tox. 4 Skin corr. 1B Eye Dam.1 STOT RE 2, Kidney	H302 H314 H318 H373 GHS 05, GHS 07, GHS 08
Benzotriazole CAS no: 95-14-7 Reach registration: 01-2119979079-20-xxxx	<=0,2-	Acute. Tox 4 Aquatic Chronic 2 Eye Irrit. 2	H302 H411 H319 GHS 09, GHS 07

The full text of the H-phrases and classification abbreviations (GHS/CLP) listed in this section can be found in section 16.

SECTION 4: COMPOSITION/INFORMATION ON INGREDIENTS

General information:	No special measures required.
after inhalation:	Supply fresh air, consult a doctor in case of complaints.
after skin contact:	Wash with plenty of soap and water. If skin irritation persists, consult a doctor.
after eye contact:	Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist.
after ingestion:	Rinse out mouth and drink plenty of water. If symptoms persist, consult a doctor.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing agents:	Product itself does not burn.
Unsuitable extinguishing agents for safety reasons:	Not applicable
Special hazards due to the substances, their combustion products or resulting gases:	Carbon oxides (COx)
Further information:	Fire residues and contaminated water must be disposed of in a safe manner.

SECTION 6: MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

Personalised:	Avoid contact with eyes and skin. Avoid inhalation of mists and vapours.
Precautionary measures:	Draw attention to the risk of slipping if the material is released.
Environmental protection measures:	Do not allow to enter waterways, waste water or soil.





Process for cleaning / absorption:
Additional information:

Absorb with liquid-binding material, e.g. diatomaceous earth, and dispose of properly.
For information on personal protective equipment, see chapter 8.

SECTION 7: HANDLING AND STORAGE

HANDLING

Instructions for safe handling:

The usual precautionary measures for handling chemicals must be observed. Spilled substance causes danger of slipping.

Notes on fire and explosion protection:

No special measures required.

II Storage:

do not store below 10° C. Temperatures below <3° C can cause irreversible flocculation

Requirements for storage rooms and containers:

Observe water regulations. Protect from frost.

Further information on storage conditions:

Store in a cool, dry place in a tightly closed container. Consume opened containers within 24 months.

STORAGE CLASS (LGK)

Classification according to the Ordinance on Industrial Safety and Health (BetrSichV)

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Additional information on the design of technical systems:

No further details, see point 7.

Additional information:

The lists valid at the time of creation served as the basis.

PERSONAL PROTECTIVE EQUIPMENT

General protective and hygiene measures:

The usual precautionary measures for handling chemicals must be observed.

Respiratory protection:

No special measures required if the OEL(s) and/or other occupational exposure limit values are permanently and safely complied with.

Hand protection:

If contact with the fluid directly with the hands is unavoidable, there is no risk to health.

Eye protection:

Safety goggles are recommended when decanting.

Body protection:

Protective work clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Mould:

liquid

Colour:

colourless

Odour:

inconspicuous

Evaporation rate:

negligible

Solubility in water:

unlimited miscibility at 20°C

Solubility:

in strongly polar solvents

Boiling range:

approx. 100-105°C

Flash point:

non-flammable

Vapour pressure:

not determined

Density:

approx. 1 g/cm³ at 20°C

pH value:

approx. 7.4

II Viscosity:

(kinematic) 3.01mm² /s (20°C) | 1.68mm² /s (40°C)

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid:

No hazardous reactions known if stored and handled properly.

Substances to avoid:

Strong oxidising agents. Reducing agents.

Hazardous reactions:

No dangerous reactions known.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide. Nitrogen oxides /NO_x.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritant effect:

On the skin:

No irritant effect

On the eye:

mildly irritant.

On the airways:

Inhalation of vapours at high temperatures can cause respiratory irritation.

Sensitisation:

No sensitising effect known.

Additional toxicological information:

The product is not subject to labelling according to the calculation method of the General Classification Guidelines for Preparations of the EC in the latest valid version. According to our experience and the information available to us, the product does not cause any adverse health effects when handled properly and used as intended.

Other hazards:

Endocrine disrupting properties. Assessment: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 12: ENVIRONMENTAL INFORMATION

Mobility:

Easily absorbed into the soil.





Persistence and degradability:	Easily biodegradable.
Bioaccumulative potential:	No bioaccumulation potential.
Other adverse effects:	Low ecotoxicity.
WGK (DE):	Water hazard class: 1; slightly hazardous to water; WGK (DE)

SECTION 13: NOTES ON DISPOSAL

WASTE TREATMENT PROCESS

Recommendation:	Disposal in accordance with local, official regulations.
Waste code number:	The waste code number must be assigned by the waste producer on an industry and process-specific basis in accordance with the Waste Catalogue Ordinance.
European Waste Catalogue:	The assignment of waste code numbers in accordance with the SAB must be carried out on a sector and process-specific basis.

UNCLEANED PACKAGING

Recommendation:	Disposal in accordance with official regulations.
Recommended cleaning agent:	Water

SECTION 14: TRANSPORT REGULATIONS

ADR / RID

UN No:	Not applicable
Hazard label:	Not applicable

IMDG / IMO

UN No:	Not applicable
Hazard label:	Not applicable

Transport/further information: No dangerous goods according to the above regulations.

SECTION 15: INFORMATION ON LEGAL PROVISIONS

Labelling according to EC directives:	The usual precautionary measures for handling chemicals must be observed. The product is not subject to labelling according to EC directives / Ordinance on Hazardous Substances.
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National regulations:

Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV): -

SECTION 16: OTHER INFORMATION

Full text of the hazard statements (H-phrases) listed in chapter 3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic organisms, with long lasting effects.

Hazard class code (GHS/CLP)

Acute Tox.	Acute toxicity - oral
Skin corr.	Corrosive effect on the skin
Eye Irrit.	Eye irritation
Eye Dam.	Severe eye damage
Aquatic Chronic	Hazardous to water - chronic
STOT RE	Specific target organ toxicity (repeated exposure)

Further information

Important literature references and data sources:	Information from our suppliers and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to prepare this safety data sheet.
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The information in this safety data sheet is based on our knowledge at the time of revision and serves to describe our products with regard to the safety precautions to be taken. They do not constitute a guarantee of the properties of the product described, nor do they constitute product information or product specifications and do not establish a contractual legal relationship. The information in the safety data sheet is not transferable to other products. If the product mentioned in this safety data sheet is mixed, blended or processed with other materials or undergoes processing, the information in this safety data sheet cannot be transferred to the new material, unless expressly stated otherwise. This safety data sheet contains only safety-relevant information and does not replace any product information or product specification.

II section has been revised

This data sheet has been machine translated from German. Country-specific requirements may vary.

