



SAFETY DATA SHEET

SANDVIK PERFORMANCE FLUIDS

LONG-LIFE HYDRAULIC OIL

SANDVIK OH46-ECO

ACCORDING TO REGULATION (EC) NO. 1907/2006 (REACH) ARTICLE 31, ANNEX 11 AS
ISSUED: 22 November 2018
INTERNAL NO : SDS-SANDVIK OH46-ECO/ENG/METRIC

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1: Product identifier

Product name	SANDVIK LONG-LIFE HYDRAULIC OIL
Product code	SANDVIK OH46-ECO

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

Identified uses	Hydraulic oil
Uses advised against	No uses advised against identified.

1.3: Details of the supplier of the safety data sheet

Supplier name	Sandvik Mining and Construction
Address	Sverige AB Södra Järngatan 1 Sandviken, Sweden
Email	sds.smrt@sandvik.com

1.4: Emergency telephone number

Emergency telephone numbers	In case of chemical emergency (spill, leak, fire, exposure or accident) call our service provider UK National Chemical Emergency Centre (NCEC): For Europe and if no country-specific number listed: +44 1865 407 333 For Brazil: +55 11 3197 5891 For US: +1 202 464 2554 For Mexico: +52 55 5004 8763 For Africa: +27 21 300 2732 For Australia: +61 2 8014 4558 For NZ: +64 9 929 1483 For China (mainland): + 86 532 8388 9090 For China (outside): +86 512 8090 3042
Hours of operation	24 hours per day / 7 days per week.



2: HAZARDS IDENTIFICATION

2.1: Classification of the substance or mixture

The product has not been classified as hazardous and does not need to be labelled according to regulation (EU) no 1272/2008 (CLP).	
Hazard Summary	
Physical Hazards	No data available

2.2: Label elements

Not applicable

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

3.1: Mixtures

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

4: FIRST AID MEASURES

General	Instantly remove any clothing soiled by the product.
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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.
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5: FIRE-FIGHTING MEASURES

5.1: Extinguishing media

Suitable extinguishing media	CO ₂ , fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant 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 fire-fighters

Special fire-fighting procedures	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting 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. Provide adequate ventilation.

7.2: Conditions for safe storage, including any incompatibilities

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

7.3: Specific end use(s)

No data available



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 airborne levels to an acceptable level.
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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.
Eye / face protection	Safety glasses (EN 166) recommended during refilling.
Skin protection	
Hand protection	Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: ≥ 480 min Recommended thickness of the material: $\geq 0,38$ mm 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	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards	Not known
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



9: PHYSICAL AND CHEMICAL PROPERTIES

9.1: Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Form	Liquid
Colour	Yellow
Odor	Characteristic
Odor Threshold	Not applicable for mixtures
pH	Not applicable
Melting Point	Not applicable for mixtures
Boiling Point	Value not relevant for classification
Flash point	290 °C (DIN EN ISO 2592)
Evaporation Rate	Not applicable for mixtures
Flammability (solid, gas)	Value not relevant for classification
Flammability Limit - Upper (%)	Not applicable for mixtures
Flammability Limit - Lower (%)	Not applicable for mixtures
Vapour pressure	Not applicable for mixtures
Vapour density (air=1)	Not applicable for mixtures
Density	0,92 g/cm ³ (15 °C) (DIN EN ISO 12185)
Solubility(ies)	
Solubility in water	Insoluble in water
Solubility (other)	No data available
Partition coefficient (n-octanol/water)	Not applicable for mixtures
Autoignition Temperature	Value not relevant for classification
Decomposition Temperature	Value not relevant for classification
Kinematic viscosity	46 mm ² /s (40 °C, DIN EN ISO 3104)
Explosive properties	Value not relevant for classification
Oxidizing properties	Value not relevant for classification

9.2: 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

10.3: Possibility of hazardous reactions

Stable under normal use conditions

10.4: Conditions to avoid

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 vapours.
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11: TOXICOLOGICAL INFORMATION

Acute toxicity	
Oral	
Product	Not classified for acute toxicity based on available data.
Dermal	
Product	Not classified for acute toxicity based on available data.
Inhalation	
Product	Not classified for acute toxicity based on available data.

Skin Corrosion / Irritation	
Product	Based on available data, the classification criteria are not met.

Serious Eye Damage / Eye Irritation	
Product	Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization	
Product	Skin sensitizer: Based on available data, the classification criteria are not met. Respiratory sensitizer: Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity	
Product	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	

12: ECOLOGICAL INFORMATION

12.1: Toxicity

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

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

12.2: Persistence and Degradability

Biodegradation	
Product	Not applicable for mixtures

12.3: Bioaccumulative Potential

Product	Not applicable for mixtures
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12.4: Mobility in Soil

Product	Not applicable for mixtures
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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

Not expected to be harmful to aquatic organisms. The classification of this product is based all or in part on test data.

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

14.1: UN number

ADR/RID	-
ADN	-
IMDG	-
IATA	-

14.2: UN proper shipping name

ADR/RID	-
ADN	-
IMDG	-
IATA	-

14.3: Transport hazard class(es)

ADR/RID

Class	Non-dangerous goods.
Label(s)	-
Hazard No. (ADR)	-
Tunnel restriction code	-

ADN

Class:	Non-dangerous goods.
Label(s)	-

IMDG

Class:	Non-dangerous goods.
Label(s)	-
EMS No	-

IATA

Class:	Non-dangerous goods.
Label(s):	-

14.4: Packing group

ADR/RID	-
ADN	-
IMDG	-
IATA	-

14.5: Environmental hazard(s)

ADR/RID	-
ADN	-
IMDG	-
IATA	-



14.6: Special precaution(s) for user

ADR/RID	-
ADN	-
IMDG	-
IATA	-

14.7: Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

15: REGULATORY INFORMATION

15.1: Safety, health and environmental regulations / legislation specific for the substance or mixture	
EU Regulations	
Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer	None
Regulation (EC) No. 850/2004 on persistent organic pollutants	None

15.2: Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

16: OTHER INFORMATION

Wording of the H-statements in section 2 and 3	None
Other Information	The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).
Revision Date	
Disclaimer:	<p>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.</p>

End of Safety Data Sheet