SAFETY INFORMATION SHEET

SANDVIK PERFORMANCE FLUIDS

SHANK LUBRICATION OIL

SANDVIK OS100

ACCORDING TO REGULATION (EC) NO 1272/2008 WE ARE NOT OBLIGED TO SUPPLY A SAFETY DATA SHEET OR MATERIAL SAFETY DATA SHEET WITH THIS PRODUCT. HOWEVER AS YOUR SAFETY IS OUR FIRST PRIORITY AT SANDVIK WE MADE AVAILABLE A SAFETY INFORMATION SHEET TO ACCOMPANY THE PRODUCT

INTERNAL NO: SIS-SANDVIK OS100/ENG/METRIC ISSUED: 09/09/2024

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

1.1: Product identifier

Product Name	Shank Lubrication Oil
Product Code	Sandvik OS100

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

Identified uses	Lubricant
Uses advised against	This product must not be used in applications other than those listed in chapter 1 without first seeking the advice of the supplier.

1.3: Details of the supplier of the safety information sheet

Name	Sandvik Mining and Construction Logistics Ltd.
Adress	Harcourt Road, Dublin, Ireland
Email	For ALL content or SDS related inquiries contact us 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.

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 regulation (EU) 1272/2008 (CLP).

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

Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.

Hazard summary:
Physical Hazards: No data available.

2.2 Label Elements

Hazard Statement(s): H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P273: Avoid release to the environment.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental label information
EUH208: Contains: Alkyl amine. May produce an allergic reaction.

2.3 Information on 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.

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Results of PBT and vPvB assessment:
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1: Mixtures

General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Alkyl amine	EINECS: 701-175-2	0,10% - <0,25%	01-2119456798-18	
alkenyl amine, long-chain	EC: 627-034-4	0,01% - <0,25%	01-2119473797-19	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification	
Alkyl amine	EINECS: 701-175-2	CLP:	Skin Corr. 1B;H314, Skin Sens. 1A;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302, Acute Tox. 3;H311, Acute Tox. 2;H330
alkenyl amine, long-chain	EC: 627-034-4	CLP:	Acute Tox. 4;H302, Asp. Tox. 1;H304, STOT SE 3;H335, STOT RE 2;H373, Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Eye Dam. 1;H318; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10

CLP: Regulation No. 1272/2008.

Specific concentration limit

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
Alkyl amine	EINECS: 701-175-2	>= 5 %	Skin sensitizer	1A	H317

For the wording of the listed hazard statements refer to section 16.
Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 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

Symptoms: May cause skin and eye irritation.

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

Treatment: Get medical attention if symptoms occur.

5: FIRE-FIGHTING MEASURES

5.1: Extinguishing media

Suitable extinguishing media	CO2, 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

Specific hazards during fire-fighting	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 inaccordance 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

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

6.3: Methods and materials 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. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.

7.3: Specific end use(s)

Not applicable

Storage Class: 10, Combustible liquids

8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1: Control parameters

Occupational exposure limits:

Chemical name	Type	Exposure Limit Values	Source
Base oil, paraffinic - Respirable fraction.	MAK	5 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended (07 2022)

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.

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 inhandling the chemicals or the mineral oil products.

Eye/face 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.

Skin protection

Hand Protection:
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 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 foot-wear 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
Color:	Brown
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	Substance/mixture is non-soluble (in water)
Freezing point:	-21 °C
Boiling Point:	> 330 °C
Flash Point:	232 °C (DIN EN ISO 2592)
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:	0,88 g/cm3 (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:	> 330 °C
Decomposition Temperature:	Not determined
Kinematic viscosity:	100 mm2/s (40 °C, DIN EN ISO 3104)
Particle characteristics:	Not applicable

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 vapors.

11: TOXICOLOGICAL INFORMATION

11.1: Information on toxicological effects

Acute toxicity:

Oral

Product:	Not classified for acute toxicity based on available data.
Specified substance(s)	
Alkyl amine	LD 50 (Rat): 612 mg/kg (OECD 401)
alkenyl amine, long-chain	LD 50 (Rat): 1.689 mg/kg (OECD 401)

Dermal

Product:	ATEmix: 221.731 mg/kg
Specified substance(s)	
Alkyl amine	LD 50 (Rat): 251 mg/kg (OECD 402)

Inhalation

Product:	ATEmix: 450,53 mg/l Vapour
Specified substance(s)	
Alkyl amine	LC 50 (Rat, 4 h): 1,19 mg/l (OECD 403)

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.

11.2 Information on other hazards

Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity:

Product:	Based on available data, the classification criteria are not met.
Fish	
Specified substance(s)	
alkenyl amine, long-chain	LC 50 (Fish, 96 h): 0,06 mg/l
Aquatic Invertebrates	
Specified substance(s)	
alkenyl amine, long-chain	EC 50 (Water Flea, 48 h): 0,011 mg/l
Chronic ToxicityProduct:	Based on available data, the classification criteria are met.
Aquatic Invertebrates	
Specified substance(s)	
alkenyl amine, long-chain	NOEC (Water Flea, 21 d): 0,013 mg/l
Toxicity to Aquatic Plants	
Specified substance(s)	
alkenyl amine, long-chain	EC 50 (Alga, 72 h): 0,12 mg/l EC 10 (Alga, 72 h): 0,029 mg/l

12.2 Persistence and Degradability

Biodegradation

Product:	Not applicable for mixtures
Specified substance(s)	
alkenyl amine, long-chain	66 % (28 d, OECD 301B)

12.3 Bioaccumulative potential

Product:	Not applicable for mixtures

12.4 Mobility in soil:

Product:	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 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com-mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.6 Other adverse effects:

Harmful to aquatic life with long lasting effects.

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

13: DISPOSAL CONSIDERATIONS

13.1: Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods:

Discharge, treatment, or disposal may be subject to national, state, or local laws. This material and/or its container must be disposed of as hazardous waste. Discharge, treatment, or disposal may be subject to national, state, or local laws.

European Waste Codes:

13 02 05*: mineral-based non-chlorinated engine, gear and lubricating oils

14: TRANSPORT INFORMATION

ADR/RID

14.1 UN Number:	–
14.2 UN Proper Shipping Name:	–
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	–
Hazard No. (ADR):	–
Tunnel restriction code:	–
14.4 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–

IMDG

14.1 UN Number:	–
14.2 UN Proper Shipping Name:	–
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	–
EmS No.:	–
14.3 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–

IATA

14.1 UN Number:	–
14.2 Proper Shipping Name:	–
14.3 Transport Hazard Class(es):	
Class:	Non-dangerous goods
Label(s):	–
14.4 Packing Group:	–
14.5 Environmental hazards:	–
14.6 Special precautions for user:	–

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

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

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

National Regulations

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

15.2 Chemical safety as-sessment:

No Chemical Safety Assessment has been carried out.

DIRECTIVE 2012/18/EU (SEVESO III) on the control of major-accident hazards involving dangerous substances
Not applicable

16: OTHER INFORMATION

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

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated expo-sure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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: 09.09.2024

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.