



SAFETY INFORMATION SHEET

SANDVIK PERFORMANCE FLUIDS

COOLANT

SANDVIK OF-COOLANT HD

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 OF-COOLANT HD/ENG/METRIC

ISSUED: 24/08/2021

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

1.1: Product identifier

| | |
|--------------|-----------------------|
| Product Name | Coolant |
| Product Code | Sandvik OF-COOLANT HD |

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

| | |
|----------------------|--|
| Identified uses | Antifreeze/coolant |
| 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. |
| Address | 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 been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

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

Health Hazards

| | | |
|--|------------|--|
| Acute toxicity (Oral) | Category 4 | H302: Harmful if swallowed. |
| Specific Target Organ Toxicity - Repeated Exposure | Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |

Hazard summary:

Physical Hazards: No data available.

2.2 Label Elements

Contains: Glycol



Signal Words: Warning

Hazard Statement(s): H302: Harmful if swallowed.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.
Response: P312: Call a POISON CENTER or doctor/ physician if you feel unwell.

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 containing severely refined base oils and additives.

| Chemical name | Identifier | Concentration * | REACH Registration No. | Notes |
|----------------------------|-------------------|-------------------|------------------------|-------|
| Glycol | EINECS: 203-473-3 | 50,00% - <100,00% | 01-2119456816-28 | |
| Na-salt of carboxylic acid | EINECS: 243-283-8 | 1,00% - <3,00% | 01-2119979083-31 | |

* 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 | |
|----------------------------|-------------------|----------------|-----------------------------------|
| Glycol | EINECS: 203-473-3 | CLP: | STOT RE 2;H373, Acute Tox. 4;H302 |
| Na-salt of carboxylic acid | EINECS: 243-283-8 | CLP: | Repr. 2;H361d |

CLP: Regulation No. 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. Call a POISON CENTER or doctor/ physician if you feel un-well.

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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

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 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 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.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.



7: HANDLING AND STORAGE

7.1: Precautions for safe handling

Do not eat, drink or smoke when working with the product. Take usual pre-cautions when handling mineral oil products or chemical products. Prevent formation of aerosols. 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.

7.3: Specific end use(s)

Not applicable



8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1: Control parameters

Occupational exposure limits:

| Chemical name | Type | Exposure Limit Values | Source |
|-----------------------------|------|---------------------------------|--|
| Glycol | TWA | 20 ppm 52 mg/m ³ | EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009) |
| Glycol | STEL | 40 ppm 104 mg/m ³ | EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009) |
| Glycol - Vapor and aerosol. | AGW | 10 ppm 26 mg/m ³ | Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (09 2013) |

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 in handling the chemicals or the mineral oil products.

Eye/face protection:

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: \geq 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 |
| Color: | Orange |
| Odor: | Characteristic |
| pH: | 8,0 - 9,0 (100 %) |
| Freezing point: | Not determined |
| Boiling Point: | Not determined |
| Flash Point: | Value not relevant for classification |
| Evaporation Rate: | Not applicable for mixtures |
| 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 |
| Vapor density (air=1): | Not applicable for mixtures |
| Density: | 1,08 g/cm ³ (15 °C) (DIN EN ISO 12185) |
| Solubility(ies) | |
| Solubility in Water: | Soluble |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | Not applicable for mixtures |
| Autoignition Temperature: | Not determined |
| Decomposition Temperature: | Not determined |
| Kinematic viscosity: | 3 mm ² /s (40 °C, DIN EN ISO 3104) |
| Explosive properties: | Value not relevant for classification |
| Oxidizing properties: | Value not relevant for classification |
| 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

Information on likely routes of exposure

| | |
|---------------|-----------------------|
| Inhalation: | No data available. |
| Ingestion: | Harmful if swallowed. |
| Skin Contact: | No data available. |
| Eye contact: | No data available. |

11.1: Information on toxicological effects

Acute toxicity:

Oral

Product: ATEmix: 998 mg/kg.

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Glycol LD 50 (Rabbit): 9.530 mg/kg

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 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.

Fish

Specified substance(s)

Glycol

LC 50 (Fish, 96 h): > 18.500 mg/l

Aquatic Invertebrates

Specified substance(s)

Glycol

LC 50 (Water Flea, 48 h): 46.300 mg/l

Chronic ToxicityProduct:

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



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 Other adverse effects:

No data available.

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.

European Waste Codes:

16 01 14*: antifreeze fluids containing hazardous substances



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 Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: 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.



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. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated expo-sure. |

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: 24.08.2021

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.