SAFETY INFORMATION SHEET

SANDVIK PERFORMANCE FLUIDS

GREASE

SANDVIK OG220-H

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 OG220-H/ENG/METRIC ISSUED: 30/07/2021

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

1.1: Product identifier

Product Name	Grease
Product Code	Sandvik OG220-H

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

Identified uses	Lubricating grease
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 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		
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
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

Contains: Organic polysulphide
carboxylic acid zinc salt

Signal Words: Warning

Hazard Statement(s): H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P333+P313: If skin irritation or rash occurs: Get medical ad-vice/ attention.

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.

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 envi-ronment without control.

3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1: Mixtures

General information: Lubricating grease: Thickener system and additives in synthetic base oil.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
dilithium sebacate	EINECS: 242-999-8	5,00% - <10,00%	01-2120119384-60	
ZnDTP	EINECS: 224-235-5	1,00% - <2,50%	01-2119493635-27	
Organic polysulphide	EINECS: 270-335-7	1,00% - <5,00%	01-2119540516-41	
phenol derivative	Confidential	1,00% - <5,00%	Confidential	
phenolic antioxidant	EINECS: 204-881-4	0,25% - <1,00%	01-2119565113-46	
carboxylic acid zinc salt	EINECS: 282-762-6	0,10% - <1,00%	01-2119988500-34	
Zn-Octoate	EINECS: 286-272-3	0,10% - <1,00%	01-2119979093-30	

* 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	
dilithium sebacate	EINECS: 242-999-8	CLP:	Acute Tox. 4;H302
ZnDTP	EINECS: 224-235-5	CLP:	Eye Dam. 1;H318, Aquatic Chronic 2;H411
Organic polysulphide	EINECS: 270-335-7	CLP:	Skin Sens. 1B;H317
phenol derivative	Confidential	CLP:	Aquatic Chronic 4;H413
phenolic antioxidant	EINECS: 204-881-4	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1
carboxylic acid zinc salt	EINECS: 282-762-6	CLP:	Aquatic Chronic 3;H412, Skin Sens. 1A;H317, Resp. Sens. 1;H334
Zn-Octoate	EINECS: 286-272-3	CLP:	Repr. 2;H361d, Eye Irrit. 2;H319, Aquatic Chronic 3;H412

CLP: Regulation No. 1272/2008.

Specific concentration limit

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
ZnDTP	EINECS: 224-235-5	> 50 %	Serious eye damage	1	H318
		> 50 %	Serious eye irritation	2	H319

For the wording of the listed hazard statements refer to section 16.

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: Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Ingestion: Rinse mouth thoroughly.

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

Suspected to cause hypersensitivity and allergy.

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

Symptoms may be delayed.

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

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

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

6.2: Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

6.3: Methods and materials for containment and cleaning up

Scrape up spillage or absorb with absorbing material. Dispose of the mate-rial 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

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

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

Storage Class: 11, Combustible solids

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.

Individual protection measures, such as personal protective equipment

General information:
Wash hands before breaks and after work. Use personal protective equip-ment 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:
Not relevant, due to the form of the product.

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:	Solid
Form:	Paste
Color:	Light beige
Odor:	Characteristic
pH:	substance/mixture is non-soluble (in water)
Freezing point:	Not determined
Boiling Point:	Not determined
Flash Point:	Not applicable
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:	0,90 g/ml (25,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Not determined
Decomposition Temperature:	Not determined
NLGI:	2
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Study technically not feasible

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:	No data available.
Skin Contact:	May cause an allergic skin reaction.
Eye contact:	No data available.

11.1: Information on toxicological effects

Acute toxicity:

Oral

Product:	ATEmix: 38.511 mg/kg
dilithium sebacate	LD 50 (Rat): 2.000 mg/kg (OECD 420)
ZnDTP	LD 50 (Rat): 4.358 mg/kg
phenolic antioxidant	LD 50 (Rat): > 2.930 mg/kg (OECD 401)

Dermal

Product:	Not classified for acute toxicity based on available data.
Specified substance(s)	
ZnDTP	LD 50 (Rabbit): > 5.000 mg/kg (OECD 402)
phenolic antioxidant	LD 50 (Rat): > 5.000 mg/kg (OECD 402)

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
Specified substance(s)	
dilithium sebacate	OECD 431 Based on available data, the classification criteria are not met. OECD 439 Based on available data, the classification criteria are not met.
ZnDTP	(Rabbit): None.
phenol derivative	OECD 404 (Rabbit): Not irritant.

Serious Eye Damage/Eye Irritation:

Product:	Based on available data, the classification criteria are not met.
Specified substance(s)	
dilithium sebacate	OECD 405 (Rabbit): Based on available data, the classification criteria are not met.
ZnDTP	(Rabbit): Slightly irritating.
phenol derivative	OECD 405 (Rabbit): Not irritant.

Respiratory or Skin Sensitization:

Product:	Skin sensitizer: Based on available data, the classification criteria are met. Respiratory sensitizer: Based on available data, the classification criteria are not met.
Specified substance(s)	
dilithium sebacate	OECD 429 (Mouse) Based on available data, the classification criteria are not met.
ZnDTP	OECD 406-1 (Guinea Pig) Not a skin sensitizer.
phenol derivative	No sensitizing effect (guinea pig); OECD 406
phenolic antioxidant	No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

Product:	Based on available data, the classification criteria are not met.
In vitro	
Specified substance(s)	
dilithium sebacate	(OECD 471) 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)	
dilithium sebacate	LC 50 (Fish, 96 h): 100 mg/l (OECD 203)
ZnDTP	LC 50 (Fish, 96 h): 4,4 mg/l (OECD 203)
Zn-Octoate	LC 50 (Fish, 96 h): 100 mg/l (OECD 203)
Aquatic Invertebrates	
Specified substance(s)	
dilithium sebacate	EC 50 (Water Flea, 48 h): 100 mg/l (OECD 202)
ZnDTP	EC 50 (Water Flea, 48 h): 75 mg/l (OECD 202)
phenol derivative	EC 50 (Water Flea, 48 h): > 101 mg/l
phenolic antioxidant	EC 50 (Water Flea, 48 h): 0,61 mg/l (OECD 202)
Chronic ToxicityProduct:	Based on available data, the classification criteria are not met.
Fish	
Specified substance(s)	
ZnDTP	NOEC (Fish, 4 d): 3,2 mg/l
Aquatic Invertebrates	
Specified substance(s)	
ZnDTP	NOEC (Water Flea, 21 d): 0,4 mg/l
phenol derivative	NOEC (Water Flea, 21 d): >= 1 mg/l
phenolic antioxidant	NOEC (Water Flea, 21 d): > 0,39 mg/l
Toxicity to Aquatic Plants	
Specified substance(s)	
dilithium sebacate	EC 50 (Alga, 72 h): 100 mg/l (OECD 201)
ZnDTP	EC 50 (Alga, 72 h): 410 mg/l

12.2 Persistence and Degradability

Biodegradation

Product:	Not applicable for mixtures
Specified substance(s)	
dilithium sebacate	(OECD 301D) Inherently biodegradable
ZnDTP	5 % (28 d, OECD 301B)
phenolic antioxidant	30 % (OECD 302C) Not readily degradable.
carboxylic acid zinc salt	29 % (28 d, OECD 301B) Not easily biodegradable
Zn-Octoate	70 % (28 d, OECD 301D) Readily biodegradable

12.3 Bioaccumulative potential

Product:	Not applicable for mixtures
Specified substance(s)	
phenolic antioxidant	May be accumulated in organism

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:

12 01 12*: spent waxes and fats

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

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life

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: 30.07.2021

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.