

SAFETY DATA SHEET



Grease Lubriplate 930-serien

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued 27.03.2008

Revision date 29.06.2021

1.1. Product identifier

Product name Grease Lubriplate 930-serien

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

Use of the substance / mixture Lubricant.

1.3. Details of the supplier of the safety data sheet**Downstream user**

Company name Baker Hughes Norge AS

Office address Kontinentalvegen 8

Postal address Kontinentalvegen 8

Postcode 4056

City TANANGER

Country Norway

Telephone number +47 51 71 75 00

Fax +47 51 71 75 01

Email BHNorwayHS&ETeam@bakerhughes.com

Website www.bakerhughes.com

1.4. Emergency telephone number

Emergency telephone
Telephone number: +47 21 93 06 78
Description: CHEMTREC Nødtelefonnummer (NO)

Telephone number: 22 59 13 00
Description: Giftinformasjonen

Telephone number: +47 51 69 46 24
Description: Beredskapstelefon

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Aquatic Chronic 2; H411

Substance / mixture hazardous properties Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms (CLP)



Hazard statements H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents / container to an approved waste facility.

2.3. Other hazards

PBT / vPvB PBT/vPvB assessment has not been performed.

Health effect Prolonged and repeated skin contact will cause defatting and possible irritation. CAS-nr.: 14808-60-7 og Antimony and antimony compounds (calculated as Sb) is not classified as carcinogenic, but is marked as carcinogenic in the Norwegian working exposure limit list.

Other hazards None of the components are listed on ECHAs Endocrine disruptor assessment list.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Distillates (petroleum) , hydrotreated heavy naphtenic	CAS No.: 64742-52-5		60 - 100 %	
Zinc oxide	CAS No.: 1314-13-2 EC No.: 215-222-5 Index No.: 030-013-00-7	Aquatic Acute 1; H400; M-factor 1; Aquatic Chronic 1; H410; M-factor 1;	1 - 5 %	
Antimony diamylthiocarbamate	CAS No.: 15890-25-2		1 - 5 %	
Crystalline silica	CAS No.: 14808-60-7	STOT RE1; H372	< 1 %	

EC No.: 238-878-4

Remarks, substance	CAS-nr.:64742-52-5 contains <3% DMSO-extract. This indicates that the ingredient is not carcinogenic. (IP 346)
Substance comments	See section 16 for explanation of hazard statements (H) listed above. For substances without REACH registration number, no information has been provided by the subcontractor or manufacturer.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. By prolonged rinsing, use luke warm water to avoid damage to the eye. Contact physician if discomfort continues.
Ingestion	Rinse mouth thoroughly. Drink a few glasses of water or milk. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention.

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

Acute symptoms and effects	Eye contact: May cause mild irritation. Ingestion: Ingestion may cause discomfort. May cause nausea, vomiting and diarrhea.
Delayed symptoms and effects	Prolonged and repeated skin contact will cause defatting and possible irritation.

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

Medical monitoring for delayed effects	Monitor for 48 hours.
Other information	Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO ₂), water mist, alcohol resistant foam.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide (CO ₂). Oxides of sulphur (SO _x). Nitrogenoxides (NO _x). Metal oxides.

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Use protective equipment as referred to in section 8. Avoid contact with skin and eyes. Provide adequate ventilation.
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6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.
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6.3. Methods and material for containment and cleaning up

Clean up	Use mechanical handling equipment. Collect in a suitable container and dispose as hazardous waste according to section 13. Flush with plenty of water and detergent to clean spillage area.
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6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Use protective equipment as referred to in section 8. Provide adequate ventilation. Avoid contact with skin and eyes.
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Protective safety measures

Safety measures to prevent fire	Keep away from sources of ignition.
Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place.
Conditions to avoid	Keep away from heat, sparks and open flame. Protect from sunlight.

Conditions for safe storage

Advice on storage compatibility	Keep away from: Oxidizing agents. Chlorine. Food and feed.
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7.3. Specific end use(s)

Specific use(s)

See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Oil mist (mineral particles)		Limit value (8 h) : 1 mg/m ³	
Oil vapour		Limit value (8 h) : 50 mg/m ³	
Zinc oxide	CAS No.: 1314-13-2	Limit value (8 h) : 5 mg/m ³ Comments: Norwegian ADN	
Antimony and compounds except stibine (as Sb)		Limit value (8 h) : 0,5 mg/ m ³	
Crystalline silica	CAS No.: 14808-60-7	Limit value (8 h) : 0,3 mg/ m ³ Exposure limit letter Letter code: K, 7 Comments: Totalstøv Limit value (8 h) : 0,1 mg/ m ³ Exposure limit letter Letter code: K, 7 Comments: Respirabelt støv	
Control parameters comments	Explanation of the notations: K = Chemicals to be treated as carcinogenic. 7) Summation formula should be used for dust containing α-quartz, cristobalite and/or tridymite. At the same time values for inhalable dust must be complied. References (laws/regulations): Norwegian regulation on exposure limits: "FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier)".		

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure

Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.

A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment

Description: Wear tight-fitting goggles or face shield.
 Reference to relevant standard: EN 166 (Personal eye-protection. Specifications).

Additional eye protection measures

Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable

disposable unit.

Hand protection

Suitable materials	Nitrile.
Breakthrough time	Comments: No specific information from the manufacturer.
Thickness of glove material	Comments: No specific information from the manufacturer.
Hand protection equipment	Description: Use chemical resistant gloves. The recommended material of gloves is recommended after a study of the single components in the chemical. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN 420 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear.

Skin protection

Recommended protective clothing	Description: Wear appropriate protective clothing to protect against possible skin contact.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: Normally not required. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A/P2). Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).
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Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Grease Solid.
Colour	Beige.
Odour	Mild.
Odour limit	Comments: Not determined.
pH	Comments: Not determined.
Melting point / melting range	Comments: Not determined.

Boiling point / boiling range	Value: > 288 °C
Flash point	Value: 204 °C Method: COC
Evaporation rate	Value: < 0,01 Comments: BuAc=1
Flammability	The product is not classified as flammable.
Explosion limit	Comments: Not determined.
Vapour pressure	Value: < 0,0013 kPa Temperature: 25 °C
Vapour density	Value: > 5 Reference gas: Luft = 1
Relative density	Value: 0,95 Comments: Water = 1
Solubility	Medium: Water Comments: Insoluble.
Partition coefficient: n-octanol/ water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Comments: Not determined.
Decomposition temperature	Comments: Not determined.
Viscosity	Comments: Not determined.
Explosive properties	Not determined.
Oxidising properties	Not determined.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data available.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous polymerization will not occur under normal conditions.
Arise in contact with incompatible materials (see section 10.5) and/or under inappropriate conditions (see section 10.4).

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Protect from direct sunlight.
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10.5. Incompatible materials

Materials to avoid	Chlorine. Oxidizing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met. The chemical is not classified as carcinogenic, but is marked as carcinogenic in the Norwegian working exposure limit list.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion	Ingestion may cause discomfort. May cause nausea, vomiting and diarrhea.
In case of skin contact	Prolonged and repeated skin contact will cause defatting and possible irritation. Dryness and cracking.
In case of inhalation	No specific information from the manufacturer.
In case of eye contact	May cause mild irritation.

11.2 Other information

Other information

None of the components are listed on ECHAs Endocrine disruptor assessment list.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish

Toxicity type: Acute
Value: 1,1 mg/l
Effect dose concentration: LC50
Test duration: 96 hour(s)
Species: Oncorhynchus mykiss
Comments: Applies to CAS-nr.:1314-13-2.
(Literature value)

Aquatic toxicity, algae

Toxicity type: Acute
Value: 0,136 mg/l
Effect dose concentration: IC50
Test duration: 72 hour(s)
Species: Pseudokirchneriella subcapitata
Comments: Applies to CAS-nr.: 1314-13-2.
(Literature value)

Aquatic toxicity, crustacean

Toxicity type: Acute
Value: 24,6 mg/l
Effect dose concentration: LC50
Test duration: 48 hour(s)
Species: Daphnia magna
Comments: Applies to CAS-nr.:1314-13-2.
(Literature value)

Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability description/evaluation

There are no data available on the chemical itself.

12.3. Bioaccumulative potential

Bioaccumulation, comments

Information on bioaccumulation is not available for the chemical.

12.4. Mobility in soil

Mobility

Insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

PBT/vPvB assessment has not been performed.

12.6. Endocrine disrupting properties

Endocrine disrupting properties

None of the components are listed on ECHAs Endocrine disruptor assessment

list.

12.7. Other adverse effects

Additional ecological information

Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical

Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.

EWC waste code

EWC waste code: 120112 spent waxes and fats
Classified as hazardous waste: Yes

NORSAS

7021 Olje- og fettavfall

Other information

Do not empty into drains.

SECTION 14: Transport information

Dangerous goods

Yes

14.1. UN number

ADR/RID/ADN

3077

IMDG

3077

ICAO/IATA

3077

14.2. UN proper shipping name

ADR/RID/ADN

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical name/danger releasing substance ADR/RID/ADN

(Zink oxide)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical name/danger releasing substance IMDG

(Zink oxide)

ICAO/IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical name/danger releasing substance ICAO/IATA

(Zink oxide)

14.3. Transport hazard class(es)

ADR/RID/ADN

9

IMDG

9

ICAO/IATA

9

14.4. Packing group

ADR/RID/ADN

III

IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

IMDG Marine pollutant	Yes
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14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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14.7. Maritime transport in bulk according to IMO instruments

Ship type required	Data lacking.
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ADR/RID Other information

Hazard No.	90
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IMDG Other information

EmS	F-A, S-F
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Norwegian regulations on waste. no. 930/2004, from the Ministry of Environment. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009.
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	H372 Causes damage to organs through prolonged or repeated exposure 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.
CLP classification, comments	Calculation method.

Key literature references and sources for data	Suppliers Safety data sheet dated: 28.08.2020.
Abbreviations and acronyms used	PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative EWC: European Waste Code (a code from the EU's common classification system for waste) LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. LC50: Median concentration lethal to 50% of a test population. EC50: The effective concentration of substance that causes 50% of the maximum response IC50: The concentration of compound that results in 50% inhibition of a biological or biochemical function. ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation IMDG: The International Maritime Dangerous Goods Code
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Checking quality of information	This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
Version	3
Prepared by	Kiwa Kompetanse AS, Norway by Sharon M. Løver