SAFETY DATA SHEET

ORION 95+

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 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	20.05.2022
Revision date	30.08.2024

1.1. Product identifier

Product name	ORION 95+
Specification No.	300097
Article no.	BL095A, BL095BS, BL095E

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

Use of the substance / mixture	Universal grease.
Professional use	Yes
Consumer use	No

1.3. Details of the supplier of the safety data sheet

Distributor

Company name	Relekta AS
Office address	Innspurten 1A
Postal address	Postboks 6169 Etterstad
Postcode	0663
City	Oslo
Country	Norway
Telephone number	+47 22 66 04 00
Fax	+47 22 66 04 01
Email	post@relekta.no
Website	www.relekta.no
Enterprise No.	NO 831 881 372

1.4. Emergency telephone number

Emergency telephone	Telephone number: 22 59 13 00 Description: Norwegian Poison Information Center Telephone number: 112 Description: Within Sweden: Ask for Poison Information

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, notes	Classification according to (EC) No.1272/2008: Not classified.

2.2. Label elements

Supplemental label information	EUH 210 Safety data sheet available on request.

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Other hazards	In case of spills, beware of slippery floors and surfaces. None of substances in 3.2 is listed on ECHA's 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 EC No.: 265-155-0 Index No.: 649-465-00-7 REACH Reg. No.: 01-2119467170-45		50 < 80 %	2
Calcium Carbonate	CAS No.: 1317-65-3 EC No.: 215-279-6		3 < 5 %	6
Dilithium sebacate	CAS No.: 19370-86-6 EC No.: 242-999-8 REACH Reg. No.: 01-2120119384-60	Acute Tox. 4; H302	3 < 5 %	
Distillates (petroleum) , hydrotreated light paraffinic	CAS No.: 64742-55-8 EC No.: 265-158-7 Index No.: 649-468-00-3 REACH Reg. No.: 01-2119487077-29	Asp. Tox. 1; H304	1 < 5 %	
Phosphorodithioic acid, O, O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	CAS No.: 85940-28-9 EC No.: 288-917-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	1 < 2,5 %	

[2]Substance with a workplace exposure limit
[6]Substance listed as additional information

Remarks, substance	CAS-nr.:64742-55-8 contains <3% DMSO-extract. This indicates that the

	ingredient is not carcinogenic.
Substance comments	For substances without REACH registration number, no information has been provided by the subcontractor or manufacturer. See section 16 for explanation of hazard statements (H) listed above.

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	Remove contact lenses and open eyes wide apart. Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Contact physician if discomfort continues.
Ingestion	Rinse mouth thoroughly. Give some cream or vegetable oil. Do not induce vomiting. Get medical attention.

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

Acute symptoms and effects	Inhalation: Inhalation of dust and vapor at high temperatures can irritate the respiratory tract. Eye contact: May cause mild irritation. Ingestion: Irritates the mouth, esophagus and digestive tract. 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

Other information	No specific information from the manufacturer. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO2), 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. May ignite at high temperature.
Hazardous combustion products	May include, but is not limited to: Carbon dioxide (CO2). Carbon monoxide (CO). Sulphurous gases (SOx). Nitrous gases (NOx). Oxides of phosphorous (POx). Hydrogen sulphide (H2S). 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	Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Use protective equipment as referred to in section 8. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean up	Absorb in vermiculite, dry sand or earth and place into containers. Collect in a suitable container and dispose as hazardous waste according to section 13. Wash contaminated area with water.

6.4. Reference to other sections

Other instructions	See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Use protective equipment as referred to in section 8. When working with heated grease, mechanical ventilation may be required.

Protective safety measures

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	Frost. Avoid heat, flames and other sources of ignition.

Conditions for safe storage

Advice on storage compatability	Keep away from: Strong oxidizing agents, strong acids, strong bases. Food and feed.
Storage temperature	Value: 0 - 40 °C
Storage stability	Maximum storage time: 5 years.

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 vapour		Limit value (8 h) : 50 mg/m³	
Oil mist (mineral particles)		Limit value (8 h) : 1 mg/m³	
Swedish ADN: Oil vapour		Limit value (8 h) : 1 mg/m³ Limit value (8 h) : 3 mg/m³ **Exposure limit letter** Letter code: V	
Oil mist (mineral oil particles) svensk norm		Limit value (8 h) : 1 mg/m³ **Limit value (short term)** Value: 3 mg/m3	

Control parameters comments	Explanation of the notations: V = Indicative short-term limit value References (laws/regulations): Norwegian regulation on exposure limits: FOR 2011-12-06 nr. 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2024-05-15-782).. Swedish regulation on exposure limits: Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden, "Hygieniska gränsvärden", AFS 2018:1

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: Risk of splashes: Wear tight-fitting goggles or face shield. Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements).
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 gloves type	Nitrile.
Breakthrough time	Value: > 30 minute(s)

Thickness of glove material	Value: > 0,09 mm
Hand protection equipment	Description: Use protective gloves that are suitable for the application. The gloves abilities may vary among the different glove manufacturers. The recommended material of gloves is recommended after a study of the single components in the chemical. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear. Gloves must only be worn on clean, dry hands.

Skin protection

Recommended protective clothing	Description: Wear appropriate clothing to prevent repeated or prolonged 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, use suitable respiratory equipment with combination filter (type A/P2) (according to EN 149). 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).

Appropriate environmental exposure control

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Solid
Physical state	Paste.
Colour	Purple.
Odour	Almost odourless.
pH	Comments: Not relevant.
Melting point / melting range	Value: > 280 °C Method: ASTM D2265
Boiling point / boiling range	Comments: Not determined.
Flash point	Value: ≥ 200 °C Method: ASTM D93
Flammability	The product is not classified as flammable.
Explosion limit	Comments: Not determined.
Vapour pressure	Comments: Not determined.

Vapour density	Comments: Not determined.
Relative density	Value: 0,85 - 0,95 Temperature: 25 °C
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	Value: 480 mm2/s Comments: Applies to the main component Temperature: 40 °C Type: Kinematic

9.2. Other information

Physical hazards

Solvent content	Value: 0 % (VOC)

Other physical and chemical properties

Physical and chemical properties	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under normal temperature conditions and recommended use.

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal conditions.

10.4. Conditions to avoid

Conditions to avoid	Avoid frost. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Strong oxidizing agents, strong acids, strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

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

Acute toxicity	Effect tested: LD50 Route of exposure: Oral Method: OECD 420 Value: > 300 mg/kg bw Species: Rat Gender: Female Comments: Applies to CAS-no: 19370-86-6. Effect tested: ATEmix calculated Value: 500 mg/kg bw Comments: Applies to CAS-no: 19370-86-6.

Other information regarding health hazards

Acute toxicity, mixture estimate	Dose: ATEmix calculated Route of exposure: Oral Value: 20000 mg/kg
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.
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	The chemical may irritate the stomach/intestines and can cause abdominal pain, nausea, vomiting and diarrhoea.
In case of skin contact	Prolonged and repeated skin contact will cause defatting and possible irritation.

In case of inhalation	Inhalation of vapour from heated chemical may be irritating to the respiratory system.
In case of eye contact	May cause irritation of the eyes, and cause redness and watering.

11.2 Other information

Endocrine disruption	None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, algae	Value: 2,1 mg/l Effect dose concentration: EC50 Exposure time: 72 hour(s) Comments: Applies to CAS-no: 85940-28-9. Value: 2 mg/l Effect dose concentration: EC50 Exposure time: 72 hour(s) Comments: Applies to CAS-no: 85940-28-9. Value: 2,1 mg/l Effect dose concentration: EC50 Exposure time: 96 hour(s) Comments: Applies to CAS-no: 85940-28-9. Value: 2 mg/l Effect dose concentration: EC50 Exposure time: 96 hour(s) Comments: Applies to CAS-no: 85940-28-9.
Aquatic toxicity, crustacean	Value: 5,4 mg/l Effect dose concentration: EC50 Species: Daphnia magna Comments: Applies to CAS-no: 85940-28-9.
Ecotoxicity	The chemical is not classified as harmful to the environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	There are no data available on the chemical itself.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation	Log Pow: 2 - 6. Applies to CAS-no. 64742-52-5.

12.4. Mobility in soil

Mobility	Insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The chemical contains no PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	None of the substances listed in section 3.2 is listed on ECHA's 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 intented 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: 130205 mineral-based non-chlorinated engine, gear and lubricating oils Classified as hazardous waste: Yes
NORSAS	7021 Oily and greasy waste
Other information	Do not empty into drains.

SECTION 14: Transport information

Dangerous goods	No

14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments	Not relevant.

14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

IMDG Marine pollutant	No

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No

SECTION 15: Regulatory information

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

References (laws/regulations)	Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Swedish regulations on waste "Avfallsförordning (2020:614)" with later amendments. Swedish regulation on dangerous goods: Lag (2006:263) om transport av farligt gods, med senare ändringar. Norwegian regulation on waste, 01.06.2004 no. 930, with later amendments. Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

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)	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. 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: 14.12.2022.
Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways EWC: European Waste Code (a code from the EU's common classification system for waste) IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation IMDG: The International Maritime Dangerous Goods Code IMO: International Maritime Organization LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.

	PBT: Persistent, Bioaccumulative and Toxic RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail vPvB: very Persistent and very Bioaccumulative
Information added, deleted or revised	Sections being revised since previous version: 1-16
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	2
Prepared by	Kiwa Kompetanse, Norway, NOB