

SAFETY DATA SHEET

ORION 230

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	25.09.2020
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1.1. Product identifier

Product name	ORION 230
Article no.	BL230G

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

Use of the substance / mixture	Oil additive for hydraulic and gear oil.
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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: +47 22 59 13 00 Description: Norwegian Poison Information Center
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Other label information (CLP)	NOT CLASSIFIED according to health-, fire- and environmental hazard.
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2.3. Other hazards

PBT / vPvB	PBT/vPvB assessment has not been performed.
Health effect	Degreasing to skin. The harmful effects may increase in used grease.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance comments	No hazardous substances subject to listing.
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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. 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	<p>May cause eye irritation. Symptoms may be stinging pain and redness in the eyes.</p> <p>The chemical may irritate the stomach/intestines and can cause abdominal pain, nausea, vomiting and diarrhoea.</p> <p>May cause headaches and fatigue.</p>
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4.3. Indication of any immediate medical attention and special treatment needed

Other information	No specific information from the manufacturer.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO ₂), water mist, 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 dioxide (CO ₂). Carbon monoxide (CO).

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. Use protective equipment as referred to in section 8. In case of spills, beware of slippery floors and surfaces.
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6.2. Environmental precautions

Environmental precautionary measures	Prevent unintentional discharges into sewers/ water courses or soil.
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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.
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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	<p>Provide adequate ventilation. When working with heated grease, mechanical ventilation may be required. Avoid inhalation of vapours and contact with skin and eyes.</p> <p>Avoid prolonged and repeated contact with grease, particularly used grease. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.</p> <p>Use protective equipment as referred to in section 8.</p>
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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.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep container tightly closed. Store in a well-ventilated place.
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Conditions to avoid	Frost. Protect from sunlight. Do not expose to temperatures exceeding 50 °C /122 °F.
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Conditions for safe storage

Advice on storage compatability	Keep away from: Acids. Alkalies. Oxidizing agents. Reducing agents.
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7.3. Specific end use(s)

Specific use(s)	See section 1.2.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters comments	Contains no substances with occupational exposure limit values. References (laws/regulations): Norwegian regulation on exposure limits: FOR 2011-12-06 nr 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2020-04-06-695).
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8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	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. Provide adequate ventilation.
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Eye / face protection

Eye protection equipment	Description: In case of splashing: 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 gloves type	Nitrile.
Breakthrough time	Value: > 480 minute(s)
Thickness of glove material	Value: 0,35 mm
Hand protection equipment	Description: Use chemical resistant gloves. 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).

Skin protection

Recommended protective clothing

Description: Wear appropriate clothing to prevent repeated or prolonged skin contact.

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 ABEK).

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

Physical state	Liquid.
Colour	Not specified by the manufacturer.
Odour	Characteristic.
Odour limit	Comments: Not specified by the manufacturer.
pH	Status: In delivery state Comments: Not specified by the manufacturer.
Melting point / melting range	Comments: Not specified by the manufacturer.
Boiling point / boiling range	Comments: Not specified by the manufacturer.
Flash point	Comments: Not specified by the manufacturer.
Evaporation rate	Comments: Not specified by the manufacturer.
Flammability	Not relevant.
Explosion limit	Comments: Not specified by the manufacturer.
Vapour pressure	Comments: Not specified by the manufacturer.
Vapour density	Comments: Not specified by the manufacturer.
Density	Value: 0,900 kg/l Temperature: 20 °C
Solubility	Medium: Water Comments: Insoluble.
Partition coefficient: n-octanol/ water	Comments: Not specified by the manufacturer.
Auto-ignition temperature	Comments: Not specified by the manufacturer.
Decomposition temperature	Comments: Not specified by the manufacturer.
Viscosity	Comments: Not specified by the manufacturer.
Explosive properties	Not specified by the manufacturer.
Oxidising properties	Not specified by the manufacturer.

9.2. Other information

Physical hazards

Content of VOC	Comments: 0,0 Vol%
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Other physical and chemical properties

Comments	No further information is available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Under normal conditions and use there are not expected any reactivity hazards for this chemical.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid frost. Må ikke utsettes for temperaturer over 50 °C. Protect from direct sunlight.
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10.5. Incompatible materials

Materials to avoid	Acids. Oxidizing agents. Reducing 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.
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	May be degreasing after frequent contact.
In case of inhalation	Inhalation of vapour from heated chemical may be irritating to the respiratory system.
In case of eye contact	May cause eye irritation. Symptoms may be stinging pain and redness in the eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The chemical is not classified as harmful to the environment.
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12.2. Persistence and degradability

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

Bioaccumulation, evaluation	No data available on bioaccumulation.
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12.4. Mobility in soil

Mobility	Insoluble in water.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	PBT/vPvB assessment has not been performed.
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12.6. Other adverse effects

Additional ecological information	Prevent unintentional discharges into sewers/ water courses or soil.
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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 Oil and grease waste
Other information	Do not empty into drains.

SECTION 14: Transport information

14.1. UN number

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

Comments	Not relevant.
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14.3. Transport hazard class(es)

Comments	Not relevant.
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14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

IMDG Marine pollutant	No
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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

Transport in bulk (yes/no)	No
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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.
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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.

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.
Key literature references and sources for data	Suppliers Safety data sheet dated: 21.12.2015
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)
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 Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
Version	1
Prepared by	Kiwa Teknologisk Institutt /Irene S. Sortland.