

Version	Revision Date:	Date of last issue: 12.04.2018
1.1	12.04.2018	Date of first issue: 08.03.2018

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

1.1 **Product Identifier**

Trade name : LUKOIL NAVIGREASE LX 2/3

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

Relevant identified uses of the substance or mixture

Lubricating Grease

Uses Advised Against

No data available

1.3 Details of the supplier of the safety data sheet

Company	:	LUKOIL Marine Lubricants DMCC JBC 4 Tower, Unit No. 1506, 15th Floor Jumeirah Lakes Towers Dubai, United Arab Emirates
E-mail address Responsible/ issuing person	:	sds-info@lukoil.com
Supplier	:	LUKOIL Marine Lubricants Germany GmbH Große Bäckerstraße 13 20095 Hamburg, Germany
Telephone	:	+49 40 180 4220 60 (09:30 – 17:00, English)

1.4 Emergency Telephone number

Emergency Telephone number	:	(CHEMWATCH 24/7)	
		Worldwide toll-free number	0800 2436 2255
		Alternative global number	+61 2 9186 1132
		Alternative regional toll-free r	umbers:
		Australia	+61 1800 039 008
		New Zealand	+64 800 2436 2255
		USA and Canada	+1 877 715 9305
		Mexico	+52 2 8977700
		Chile	+56 42 2457 999
		South Africa	+27 110835222
		Japan	+81 50 55343 88



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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification Information

This product does not meet the classification and labelling criteria given in the Dangerous Preparations Directive (1999/45/EC; DPD) This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation). Hazard Pictograms

Signal Word

Hazard Statements

Hazard Statements (EU) EUH210 Safety Data sheet available upon request

Precautionary Statements

Labelling Information The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards which do not result in classification

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin. High-pressure injection under skin may cause serious damage.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances
- : This product is not a substance.

3.2 Mixtures

- : Mixture (preparation)
- Chemical nature

: Hydrocarbons, Additives

Hazardous Components

Chemical Name	CAS – No / EC No.	Classification 1272/2008 (CLP)	Concentration (% w.w)
Dilithium Sebacate	CASRN 19370-86-6 EC Nr 242-999-8	H302, H319	>= 1 - < 5

Full text for all R-phrases, H=phrases and EUH-phrases included in section 16.



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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable are classified as hazardous to health or the environment and hence require reporting in this section.

(1) Substances classified with health and environmental hazards

(2) Substance with a workplace exposure limit

Occupational exposure limits if available, are listed in section 8.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	:	First aider needs to protect himself.
If inhaled	:	If breathed in, move person into fresh air.
In case of skin contact	:	Wash off with warm water and soap. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
If swallowed	:	Do NOT induce vomiting. Obtain medical attention.
		When symptoms persist or in all cases of doubt seek medical advice.
4.2 Most important symptoms and effects, both acute and delayed	:	Gastrointestinal discomfort Stomach/intestinal disorders Vomiting Pneumonia irritant effects May cause eye irritation. Risk of product entering the lungs on vomiting after ingestion.
4.3 Indication of any immediate medical attention and special treatment methods	:	No data available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media



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Suitable extinguishing me	dia <u>:</u> Dry powder Foam Carbon dioxide ((CO2)
Unsuitable extinguishing n	nedia : High volume wate	er jet
5.2 Specific hazards du fire-fighting	floors. Vapours may forr	vier than air and may spread along m explosive mixtures with air. ainers exposed to fire with water spray.
5.3 Advice for firefighte	ers	
Specific extinguishing met	circumstances ar Fire residues and	g measures that are appropriate to local nd the surrounding environment. d contaminated fire extinguishing water d of in accordance with local
Special protective equipm firefighters	apparatus.	e, wear self-contained breathing otecting against chemicals

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	:	Keep people away from and upwind of spill/leak. Use personal protective equipment. First aider needs to protect himself. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. The danger areas must be delimited and identified using relevant warning and safety signs.
6.2 Environmental precautions	:	Prevent further leakage or spillage. Avoid subsoil penetration. Do not contaminate water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and materials for containment and cleaning up	:	Use mechanical handling equipment. Soak up with oil absorbent material. Offer surplus and
6.4 Reference to other sections	:	Refer to section 15 for specific national regulation.



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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling		
Advice on protection against fire and explosion	:	To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition. Keep in a bunded area. Do not smoke.
Advice on safe handling	:	Take care to avoid waste and spillage when weighing, loading and mixing the product. Use only with adequate ventilation. Avoid formation of aerosol. Do not get on skin or clothing. Avoid inhalation, ingestion and contact with skin and eyes.
Hygiene measures	:	Avoid contact with skin, eyes and clothing.
7.2 Conditions for safe storage	:	Keep tightly closed. Keep in a well-ventilated place. To prevent leaks or spillages from spreading, provide a suitable liquid retention system.
Materials to avoid	:	Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products. Do not store together with oxidizing and self- igniting products. Do not store together with explosives, oxidizing agents, organ-ic peroxides and infectious products. Do not store together with acids and ammonium salts.
7.3 Specific end use(s)	:	No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Components with workplace control parameters No parameters available for monitoring



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8.2 Exposure controls Engineering measures	areas. Apply technic	uate ventilation, especially in confined cal measures to comply with the l exposure limits.
Personal protective equipment		
Respiratory protection	involving pot product. Respirator w The filter clas for the maxir concentration may arise wh concentration apparatus m	or when performing operations tential exposure to vapour of the with filter type A ss for the respirator must be suitable num expected contaminant n (gas/vapour/aerosol/particulates) that hen handling the product. If this n is exceeded, self-contained breathing ust be used.
	Self-containe	ed breathing apparatus
Hand Protection Material Break through time Glove thickness	: Nitrile rubber : 480 min : 0.40 mm	
Material Break through time Glove thickness	: Viton ® : 480 min : 0.70 mm	
Material Break through time Glove thickness	: Butyl-rubber : 120 min : 0.70 mm	
Material Break through time Glove thickness	: Neoprene : 60 min : 0.60 mm	
Remarks	mentioned in t	endation is only valid for the product the safety data sheet and provided by application specified by us.



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	concerning pe and of special strain, duration The choice of depend on its	he information given by the producer ermeability and break through times, workplace conditions (mechanical n of contact). an appropriate glove does not only material but also on other quality s different from one producer to the
Eye protection	requirements for a specific v If splashes are	all applicable local/national when selecting protective measures vorkplace. e likely to occur, wear: s with side-shields
Skin and body protection	: Wear suitable	protective equipment.
Protective measures	Avoid contact Handle in acco and safety pra Please follow	all applicable local/national when selecting protective measures

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on the ba	sic physical and chemical properties
	r Thrachald	. No dete evelleble

	Odour Threshold	:	No data available
	рН	:	No data available
	Boiling point	:	No data available
	Flash point	:	> 220 °C Method Cleveland open cup
	Evaporation rate	:	No data available
	Burning rate	:	No data available
	Self-ignition	:	> 310 °C
	Upper explosion limit	:	No data available
	Lower explosion limit	:	No data available
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Vapour pressure	: No data available	9
Relative vapour density	: No data available	9
Relative density	: No data available	9
Density	: 0.902 g/cm ³ (20 ^o	°C)
Bulk density	: No data available	9
Solubility(ies) Water solubility	: < 0.01 g/l (20 °C))
Solubility in other solvents	: No data available	9
Partition coefficient: n-	: Not determined	
octanol/water Ignition temperature	: No data available	9
Decomposition temperature	: No data available	9
Viscosity Viscosity Dynamic	: No data available	e
Flow time	: No data available	9
Explosive properties	: Not explosive	
Oxidising properties	: This substance of oxidising	or mixture is not classified as
Self-heating substances	: No data available	9
Impact sensitivity	: No data available	9
Surface tension	: No data available	9
Refractive index	: No data available	9
Molecular weight	: No data available	9

SECTION 10. STABILITY AND REACTIVITY



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10.1	Reactivity	:	The product is chemica	ally stable.
10.2	Chemical stability	:	The product is chemica	ally stable.
10.3 react	Possibility of hazardo	ous :	Incompatible with stron agents.	g acids and oxidizing
10.4	Conditions to avoid	:	Keep away from flames	s and sparks.
10.5	Incompatible material	I s :	Strong acids and oxidiz	zing agents
	Hazardous mposition products	:	No decomposition if sto	pred and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not Classified based on available information

Product:		
Acute oral toxicity	:	No data available
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available
Acute toxicity (other routes of administration)	:	No data available
<u>Components</u> :		
Dilithium Sebacate:		
Acute oral toxicity	:	LD50 Oral (Rat): > 300 mg/kg OECD 420

Acute dermal toxicity:LC50 (Rat): > 2,000 mg/kgExposure time: 24 h

Information given is based on data obtained from structural analogue or surrogate substances. Inhalation is not regarded as possible exposure path.



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Skin corrosion/irritation

Not classified based on available information

Product:

slight irritation Non persistent irritation

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin. Health injuries are not known or expected under normal use.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Health injuries are not known or expected under normal use.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information. **Respiratory sensitisation** Not classified based on available information.

Product:

No known sensitising effect.

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vivo	: No data available

Germ cell mutagenicity -	:	Based on available data, the classification criteria
Assessment		are not met.

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity - Assessment



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		Based on availar are not met.	able data, the classification criteria
Reproductive toxicity Not classified based on availa	ble info	ormation.	
<u>Product:</u> Effects on fertility	:	This informatio	n is not available.
Effects on foetal development	: :	This information	n is not available.
Reproductive toxicity - Assessment	:	Based on availate are not met.	able data, the classification criteria
STOT - single exposure Not classified based on availa <u>Product:</u> No data available STOT - repeated exposure Not classified based on availa <u>Product:</u>			
No data available Repeated dose toxicity <u>Product:</u> This information is not availab	ıle.		
Reproductive toxicity - Assessment	:	No data availat	ble
Aspiration toxicity Not classified based on availa <u>Product:</u> No data available	ible info	ormation.	
STOT - repeated exposure Further information			
<u>Product:</u> No data available			
CTION 12. ECOLOGICAL INF	ORMA	TION	
12.1 Ecotoxicity			



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/		
Product: Toxicity to fish (Chronic toxicit	y : No data availab	ble
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: No data availat	ble
Ecotoxicology Assessment		
Acute aquatic toxicity	: No data availab	ble
Chronic aquatic toxicity	: No data availab	ble
Toxicity Data on Soil	: No data availab	ble
Other organisms relevant to the environment	ne : No data availab	ble
Components:		
Dilithium Sebacate: Toxicity to fish	Exposure time:	Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	Exposure time Method: OECI	D Test Guideline 202 ven is based on data obtained from
Toxicity to algae	algae)): > 100 r Exposure time:	30 days en is based on data obtained from
Persistence and degradability	ty	
Product:		
Biodegradability	: Result: Not rea	dily biodegradable.
Physico-chemical removability	: The product is i	insoluble and floats on water.
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		May be separated m plants.	echanically in waste water
Impact on Sewage Treatment	t :	No data available	
Bioaccumulative potential			
Product: Bioaccumulation	:	No data available	
Partition coefficient: n- octanol/water	:	not determined	
Mobility in soil			
<u>Product:</u> Mobility	:	Should not be releas	sed into the environment.
Other adverse effects			
Product: Additional ecological information	ion :	Should not be releas let product enter dra	sed into the environment. Do not ins.
SECTION 13. DISPOSAL CONSI	IDERA	TIONS	
13.1 Waste treatment methods			
Waste from residues	:	Dispose of in accordar	nce with local regulations.
		D	

Contaminated packaging : Do not pressurize, cut, weld, braze, solder, drill, grind, or ex-pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. Dispose of in accordance with local regulations. .

SECTION 14. TRANSPORT INFORMATION

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA



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The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons	:	No poison schedule number allocated
Prohibition/Licensing Requirements		There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

components of this product are reported in the following inventories:

EINECS/ELINCS/NLP (EU)		On the inventory, or in compliance with the inventory
TSCA (USA)		On the inventory, or in compliance with the inventory
DSL/NDSL (Canada)	•	On the inventory, or in compliance with the inventory
KECI (Korea)		On the inventory, or in compliance with the inventory
ENCS (Japan)		On the inventory, or in compliance with the inventory
IECSC (China)		On the inventory, or in compliance with the inventory
AICS (Australia)		On the inventory, or in compliance with the inventory
NZIoC (New Zealand)		On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

No data available / Not required according to product classification

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products



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Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: ELx - Loading rate associated with x% re-sponse; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR -(Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self- Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

H302 – Harmful if swallowed H319 – Causes serious Eye Irritation

Further information

Other information

: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Date format : dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to



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the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.