

Trade name: NAVIGO 50 MCL, NAVIGO MCL Ultra, NAVIGO MCL Extra

Current version : 4.0.1, issued: 13.07.2020

Replaced version: 4.0.0, issued: 14.01.2020

Region: GB

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

1.1 Product identifier

Trade name

NAVIGO 50 MCL, NAVIGO MCL Ultra, NAVIGO MCL Extra

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

Relevant identified uses of the substance or mixture

Engine Lubrication

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

LUKOIL Marine Lubricants DMCC

c/o «LLK-INTERNATIONAL»

6, Malaya Yakimanka

119180 Moscow, Russia

Telephone no. +7-495-627 44 49

Fax no. +7-495-627 40 20

Information provided by / telephone

+7-495-627 44 49 (9:00 - 17:00)

Advice on Safety Data Sheet

sdb_info@umco.de

Information about the distributor

Address

LUKOIL Marine Lubricants Germany GmbH

Alsterufer 20

20354 Hamburg

Telephone no. +49 40 180 4220 0

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

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

-

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Hazard statement(s)

-

Hazard statements (EU)

EUH210 Safety data sheet available on request.

Precautionary statement(s)

-

Labelling information

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

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Mixture (preparation)

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	mineraloil			
	-	Asp. Tox. 1; H304	>= 10.00 - < 25.00	%-b.w.
	-			
	-			
	-			
2	Calcium branched alkyl phenate sulphide			
	-	Aquatic Chronic 4; H413	< 5.00	%-b.w.
	701-251-5			
	-			
	01-2119524004-56			
3	Phenol, dodecyl-, branched			
	121158-58-5	Aquatic Acute 1; H400	< 0.50	%-b.w.
	310-154-3	Aquatic Chronic 1; H410		
	604-092-00-9	Eye Dam. 1; H318		
	-	Repr. 1B; H360F		
	-	Skin Corr. 1C; H314		

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	-	-	M = 10	M = 10

3.3 Other information

The mineral oil contained may be described by one or more of the following: EC No. 265-090-8, Registration No. 01-2119488706-23 Distillates (petroleum), solvent-refined heavy paraffinic; EC No. 265-157-1, Registration No. 01-2119484627-25 Distillates (petroleum), hydrotreated heavy paraffinic; EC No. 278-012-2, Registration No. 01-2119495601-36 Lubricating oils. The classification as a carcinogen does not apply as it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. REACH-registration 01-2119524004-56: Classification in the REACH registration dossier represents the substance as manufactured which contains the impurity phenol, dodecyl-, branched (EC 310-154-3; CAS 121158-58-5; Tetrapropenyl phenol (TPP)). The substance is classified as a reproductive hazard based on presence of this impurity.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

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In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Irregular breathing/no breathing: artificial respiration.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam; Extinguishing powder; Water spray jet; Carbon dioxide

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Prevent spread over a wide area (by containment with sand or earth). Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

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General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not inhale vapours.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a well-ventilated place. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Store product in closed containers. Storage rooms must be properly ventilated. Emptied containers may contain product residues and therefore must be handled with care.

Reuse only after appropriate cleaning.

Incompatible products

Do not store together with: oxidizing agents; Acids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Calcium branched alkyl phenate sulphide			-	
				701-251-5	
	dermal	Long term (chronic)	systemic	0.5	mg/kg/day
	dermal	Short term (acute)	systemic	80	mg/kg/day
	inhalative	Long term (chronic)	systemic	3.5	mg/m ³
	inhalative	Short term (acute)	systemic	133.6	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Calcium branched alkyl phenate sulphide			-	
				701-251-5	
	oral	Long term (chronic)	systemic	0.25	mg/kg/day
	oral	Short term (acute)	systemic	50	mg/kg/day
	dermal	Long term (chronic)	systemic	0.25	mg/kg/day
	dermal	Short term (acute)	systemic	40	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.87	mg/m ³
	inhalative	Short term (acute)	systemic	0.067	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	Calcium branched alkyl phenate sulphide		-	
			701-251-5	
	water	fresh water	0.5	mg/L
	water	marine water	0.04	mg/L
	water	fresh water sediment	43500	mg/kg dry weight
	water	marine water sediment	3480	mg/kg dry weight
	soil	-	8850	mg/kg dry weight

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sewage treatment plant	-	100	mg/L
secondary poisoning	-	13333	mg/kg food

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material neoprene

Appropriate Material nitrile

Other

Normal chemical work clothing, rubber boots

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
brown yellow	
Odour	
specific	
Odour threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point / melting range	
No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
Value	> 220 °C
Method	ASTM D 3828
Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	

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Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
No data available	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
Value	903 - 926 kg/m ³
Reference temperature	15 °C
Solubility in water	
Comments	insoluble
Solubility(ies)	
No data available	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
Value	18.5 - 26 cSt
Reference temperature	100 °C
Type	kinematic
Method	ASTM D 445

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Oxidizing agents; Acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity
No data available
Acute dermal toxicity
No data available
Acute inhalational toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Reproduction toxicity
No data available
Carcinogenicity
No data available
STOT - single exposure
No data available
STOT - repeated exposure
No data available
Aspiration hazard
No data available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Inhalation of vapours from the heated product can cause irritation of the respiratory tract and the eyes.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)	
No	Product Name
1	NAVIGO 50 MCL, NAVIGO MCL Ultra, NAVIGO MCL Extra
Comments	The component 'Calcium branched alkyl phenate sulphide' (EC 701-251-5) contains the impurity 'phenol, dodecyl, branched' (CAS 121158-58-5). The component containing the impurity was tested in fish, invertebrates and algae and the results showed that it may cause long lasting harmful effects to aquatic life (Aquatic Chronic 4). Therefore, the classification shown in Section 3 for 'phenol, dodecyl, branched' impurity should not be used to classify the product for aquatic toxicity.
Toxicity to fish (chronic)	
No data available	
Toxicity to Daphnia (acute)	
No data available	
Toxicity to Daphnia (chronic)	

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No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information

Ecological data are not available.

Do not discharge product unmonitored into the environment.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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

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

14.4 Other information

The product is not defined under national/international road, rail, sea and air dangerous goods transport regulations as a hazardous material:

national/international road - not restricted as per ADR

national/international rail - not restricted as per RID

national/international sea - not restricted as per IMDG

national/international air - not restricted as per IATA

14.5 Environmental hazards

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

14.6 Special precautions for user

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No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	Phenol, dodecyl-, branched	121158-58-5	310-154-3	30

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

National regulations**National chemical inventories**

EINECS/ELINCS (European Community)	listed
USA (TSCA)	listed
DSL/NDSL (Canada)	listed
ENCS (Japan)	listed
ECL (Korea)	listed
AICS (Australia)	listed
IECSC / NEPA (China)	listed
NZIoC (New Zealand)	listed

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360F	May damage fertility.
H400	Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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