

Trade name: LUKOIL NAVIGO TPEO

Version: 1.0.0 / GB

Status: 23.02.2010

Date of printing: 23.02.2010

1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

LUKOIL NAVIGO TPEO

NAVIGO TPEO 12/30, NAVIGO TPEO 15/30, NAVIGO TPEO 20/30,
NAVIGO TPEO 30/30, NAVIGO TPEO 12/40, NAVIGO TPEO 15/40,
NAVIGO TPEO 20/40, NAVIGO TPEO 30/40

Use of the substance/preparation

Engine Lubrication

Company/undertaking identification

Address

OOO LLK-INTERNATIONAL
6, Malaya Yakimanka
119180 Moscow, Russia

Telephone no. +7-495-981-71-14

Fax no. +7-495-981-76-84

Information provided by / telephone

+7-495-981-71-14 (9:00 - 17:00)

Emergency telephone

+49 (0)551 19240 (Giftinformationszentrum Nord)

Advice on Safety Data Sheet

sdb_info@umco.de

Supplier

Address

LUKOIL Marine Lubricants Ltd.
Galatariotis Building, 5th Floor
11 Limassol Avenue
2112 Aglantzia, Nikosia
Cyprus

Telephone no. +49 (0)40 / 180 422 020

2.) Hazards identification

Classification

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard symbols

- N O N E

R phrases

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3.) Composition / information on ingredients

Chemical characterization

Mixture (preparation)

Hazardous ingredients

Phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts,
overbased

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| | | | | | |
|--|-----------------|-----------|-------------|---------|------------|
| EC no. | 291-829-9 | Index no. | - | CAS no. | 90480-91-4 |
| Concentration | > 1 | < | 5 | %-b.w. | |
| Classification | R53 | | | | |
| Hazard symbols | - | R phrases | 53 | | |
| Branched alkylphenol and Calcium branched alkylphenol | | | | | |
| EC no. | - | Index no. | - | CAS no. | 74499-35-7 |
| Concentration | < 0,5 | | | %-b.w. | |
| Classification | Repr.Cat.3; R62 | Xi; R38 | N; R50/53 | | |
| Hazard symbols | Xn, N | R phrases | 38-50/53-62 | | |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | | | | | |
| EC no. | 272-028-3 | Index no. | - | CAS no. | 68649-42-3 |
| Concentration | > 0,5 | < | 1 | %-b.w. | |
| Classification | Xi; R41 | N; R51/53 | | | |
| Hazard symbols | N, Xi | R phrases | 41-51/53 | | |

4.) First aid measures

General information

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. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

5.) Fire-fighting measures

Suitable extinguishing media

Foam; extinguishing powder; Water spray jet; Carbon dioxide

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released:

Carbon dioxide (CO₂)

Carbon monoxide (CO)

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet.

6.) Accidental release measures

Personal precautions

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

Environmental precautions

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

Methods for cleaning up/taking 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 picked up, treat material as prescribed under heading "Disposal considerations".

7.) Handling and storage

Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

Storage

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.

Advice on storage assembly

Do not store together with:
Oxidizing agents
Acids

Further information on storage conditions

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

8.) Exposure controls / personal protection

Exposure limit values

N O N E

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.

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 glove should be tested in any case for its specific work-station 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 nitrile
Appropriate Material neoprene

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Clothing as usual in the chemical industry. rubber boots

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.

9.) Physical and chemical properties

General information

Form liquid
 Odour specific

Important health, safety and environmental information

Changes in physical state

| | | | |
|-------|-----------|----|----|
| Type | Pourpoint | | |
| Value | max. | -6 | °C |

Flash point

| | | | |
|--------|-----------|-----|----|
| Value | | 230 | °C |
| Method | ASTM D 92 | | |

Density

| | | | |
|-----------------------|-------|---------|-----|
| Value | 900,0 | - 913,6 | g/l |
| Reference temperature | 15 | °C | |

Viscosity

| | | | |
|-----------------------|------------|--------|--------------------|
| Type | kinematic | | |
| Value | 13,5 | - 15,0 | mm ² /s |
| Method | ASTM D 445 | | |
| Reference temperature | 100 | °C | |

10.) Stability and reactivity

Conditions to avoid

Heat

Materials to avoid

Oxidizing agents; Acids

Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition

Remarks No decomposition if used as prescribed.

11.) Toxicological information

Experience in practice

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.

Other information (chapter 11.)

Product specific toxicological data are not known.

12.) Ecological information

Other adverse effects

Ecological data are not available.

Do not discharge product unmonitored into the environment.

13.) Disposal considerations

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.

14.) Transport information

Other information (chapter 14.)

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

15.) Regulatory information

Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

Hazard symbols

- N O N E

R phrases

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Special labelling for certain preparations

Contains: Salts of alkyl hydroxybenzoic acids; Benzoic acid, hydroxy-, mono-C20-28-branched alkyl derivs., calcium salts (2:1) - May produce an allergic reaction.

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

National regulations

National chemical inventories

TSCA (USA) listed

16.) Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.
 Regulation (EC) No 1907/2006 (REACH) as amended in each case.
 EC Directives 2000/39/EC, 2006/15/EC as amended in each case.
 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 chapter.
 EC Directive 67/548/EC resp. 99/45/EC as amended in each case.
 Regulation (EC) No 1907/2006 (REACH) as amended in each case.
 EC Directives 2000/39/EC, 2006/15/EC as amended in each case.
 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 chapter.

Relevant R-phrases (chapter 3):

| | |
|-------|--|
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 62 | Possible risk of impaired fertility. |

Department issuing safety data sheet

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.