

Trade name: LUKOIL NAVISYN DE 100, LUKOIL NAVISYN DE 150

Current version : 5.0.0, issued: 15.03.2021

Replaced version: 4.0.0, issued: 20.02.2019

Region: GB

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

1.1 Product identifier

Trade name

LUKOIL NAVISYN DE 100, LUKOIL NAVISYN DE 150

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

Relevant identified uses of the substance or mixture

Synthetic air compressor oil

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 in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Chronic 3; H412

Classification information

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.

2.2 Label elements

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

Hazard pictograms

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Signal word

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Hazard statement(s)

H412 Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains N-1-naphthylaniline. May produce an allergic reaction.

Precautionary statement(s)

P273 Avoid release to the environment.

P501 Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

2.3 Other hazards**PBT assessment**

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

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

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	N-1-naphthylaniline		
	90-30-2	Acute Tox. 4; H302	< 2.50
	201-983-0	Aquatic Acute 1; H400	wt%
	-	Skin Sens. 1B; H317	
	01-2119488704-27	Aquatic Chronic 1; H410	
		STOT RE 2; H373	

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

No	Route, target organ, concrete effect
1	H373 -; blood system; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1	1625 mg/kg bodyweight		

SECTION 4: First aid measures**4.1 Description of 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. In case of persisting adverse effects consult a physician.

After skin contact

Wash off immediately with soap and water.

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After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Get medical attention if pain still persists.

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**

Extinguishing measures to suit surroundings.

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. Cool endangered containers with water spray jet. Wear protective clothing.

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

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

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

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.

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. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

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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.

Storage stability

Value 5 year(s)

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. Always keep in containers of same material as the original.

Incompatible products

None known

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	N-1-naphthylaniline			90-30-2 201-983-0	
	dermal	Long term (chronic)	systemic	0.05	mg/kg/day
	dermal	Short term (acute)	systemic	6.67	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.18	mg/m ³
	inhalative	Short term (acute)	systemic	44	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	N-1-naphthylaniline			90-30-2 201-983-0	
	oral	Long term (chronic)	systemic	0.03	mg/kg/day
	oral	Short term (acute)	systemic	8	mg/kg/day
	dermal	Long term (chronic)	systemic	0.03	mg/kg/day
	dermal	Short term (acute)	systemic	3.33	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.044	mg/m ³
	inhalative	Short term (acute)	systemic	33	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	N-1-naphthylaniline		90-30-2 201-983-0	
	water	fresh water	0	mg/L
	water	marine water	0	mg/L
	water	Aqua intermittent	0.003	mg/L
	water	fresh water sediment	0.034	mg/kg dry weight
	water	marine water sediment	0.003	mg/kg dry weight
	soil	-	0.007	mg/kg dry weight
	sewage treatment plant	-	100	mg/L
	secondary poisoning	-	7.173	mg/kg
	with reference to: food	-		

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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	polyvinyl alcohol
Appropriate Material	nitrile
Appropriate Material	butyl rubber

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form/Colour	
Oily	
yellow	
Odour	
ester-like	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Value	250 °C
Source	supplier
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	

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No data available

Upper explosion limit

No data available

Vapour pressure

No data available

Relative vapour density

No data available

Relative density

Value	0.956
Reference temperature	15 °C
Source	supplier

Density

Value	0.957 g/cm ³
Reference temperature	15 °C
Source	supplier

Solubility

No data available

Partition coefficient n-octanol/water (log value)

No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
log Pow		4.28	
Reference temperature		20	°C
Source		ECHA	

Viscosity

Value	93.5 mPa*s
Reference temperature	40 °C
Type	dynamic
Source	supplier
Value	103 mm ² /s
Reference temperature	40 °C
Type	kinematic
Source	supplier

Particle characteristics

No data available

9.2 Other information**Other information**

No data available.

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

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

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No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
LD50		1625	mg/kg bodyweight
Species		rat	
Source		ECHA	

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
LD50		> 5000	mg/kg bodyweight
Species		rabbit	
Source		ECHA	

Acute inhalational toxicity			
No data available			

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
Species		rabbit	
Method		Draize method	
Source		ECHA	
Evaluation		non-irritant	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		sensitizing	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
Type of examination		in vitro gene mutation study in mammalian cells	
Species		mouse	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
Route of exposure		oral	
Species		rat	
Method		OECD 409	

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are met.

Carcinogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
LC50		0.44	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	ECHA		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
EC50		0.3	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
EC50	>=	0.93	mg/l
Duration of exposure		96	h
Species	Desmodesmus subspicatus		
Source	ECHA		

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
EC50	>	10000	mg/l
Duration of exposure		3	h
Species	activated sludge		

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Method	OECD 209
Source	ECHA

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
Type		aerobic biodegradation	
Value		0	%
Duration		28	day(s)
Method		OECD 301 C	
Source		ECHA	
Evaluation		not readily biodegradable	

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
BCF		427	- 2730
Species		Cyprinus carpio	
Method		OECD 305 C	
Source		ECHA	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	N-1-naphthylaniline	90-30-2	201-983-0
log Pow		4.28	
Reference temperature		20	°C
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
There are no data available on the mixture itself. Do not discharge product unmonitored into the environment.

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

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with the regional waste disposal company.

Packaging

Residues 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

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 Maritime transport in bulk according to IMO instruments

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, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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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**

USA (TSCA) listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

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.

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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)

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Creation of the 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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