Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name :	TURMOPOLOIL 20 HD		
Revision date :	16.07.2026	**Version (Revision) :**	5.0.2 (5.0.1)
Print date :	18.09.2026		

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

1.1 Product identifier
TURMOPOLOIL 20 HD

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Products Category [PC]
PC 24 - Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet
Supplier
Lubricant Consult GmbH

Street : Gutenbergstraße 13

Postal code/City : 63477 MAINTAL (GERMANY)

Telephone : +49 6109/7650-0

Telefax : +49 6109/7650-51

Information contact : Product Safety Department

1.4 Emergency telephone number
EU: +44 1235 239670; USA: +1 866 928 0789; Canada: +1 800 579 7421; Americas(other): +1 215 207 0061; Asia-Pacific: +65 3158 1074; India: +65 3158 1198; Australia: 1800 074 234; Middle East/Africa: +44 1235 239671; South Africa: +27 21 300 2732;

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
None

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

2.3 Other hazards
Adverse human health effects and symptoms
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Hazardous ingredients

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimeth ylpentene ; REACH No. : 01-2119491299-23-xxxx ; EC No. :

270-128-1; CAS No. : 68411-46-1

Weight fraction : ≥ 1 - < 3 %

Classification 1272/2008 [CLP] : Repr. 2 ; H361f Aquatic Chronic 3 ; H412

N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; REACH No. : 01-2119972293-33-xxxx ; EC No. : 257-406-8; CAS No. : 51772-35-1

Weight fraction : ≥ 1 - < 5 %

Classification 1272/2008 [CLP] : Aquatic Chronic 4 ; H413

Methyl-1H-benzotriazole ; REACH No. : 01-2119979081-35-xxxx ; EC No. : 249-596-6; CAS No. : 29385-43-1

Weight fraction : < 0,5 %

Classification 1272/2008 [CLP] : Repr. 2 ; H361d Acute Tox. 4 ; H302 Aquatic Chronic 2 ; H411

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). When in doubt or if symptoms are observed, get medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Never give anything by mouth to an unconscious person or a person with cramps. Observe risk of aspiration if vomiting occurs. Remove victim out of the danger area.

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Change contaminated, saturated clothing. In case of skin reactions, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

Following ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

Self-protection of the first aider

First aider: Pay attention to self-protection!

Notes for the doctor

Symptoms

No known symptoms to date.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

Special treatment

No special measures are necessary.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Foam Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2) Pyrolysis products, toxic

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Burning produces heavy smoke.

SECTION 6: Accidental release measures

Special danger of slipping by leaking/spilling product.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

For containment

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

For cleaning up

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Clear spills immediately.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Keep away from sources of ignition - No smoking. Wear personal protection equipment (refer to section 8).

Measures to prevent fire
The product is: Combustible
Environmental precautions
See section 8.

Advices on general occupational hygiene
When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Store in a place accessible by authorized persons only.

Hints on joint storage
Storage class (TRGS 510) : 10
Do not store together with
Food and feedingstuffs
Keep away from
UV-radiation/sunlight Humidity. Heat.

7.3 Specific end use(s)
Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values
N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1

Limit value type (country of origin) :	TRGS 900 (D)
Parameter :	A: respirable fraction
Limit value :	1,25 mg/m³
Remark :	AGS, DFG, Y
Version :	

Limit value type (country of origin) :	TRGS 900 (D)
Parameter :	E: inhalable fraction
Limit value :	10 mg/m³
Peak limitation :	2(II)
Remark :	AGS, DFG, Y
Version :	

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine ; CAS No. : 110-25-8

Limit value type (country of origin) :	TRGS 900 (D)
Parameter :	E: inhalable fraction
Limit value :	0,05 mg/m³
Peak limitation :	2(II)
Remark :	DFG
Version :	

DNEL-/PNEC-values
DNEL/DMEL
N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1

Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation

Exposure frequency : Long-term
Limit value : = 2,89 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : = 1,67 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : = 1,67 mg/kg
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 11,75 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : = 3,3 mg/kg

Methyl-1H-benzotriazole ; CAS No. : 29385-43-1
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : = 0,25 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : = 0,25 mg/kg
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 4,4 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 8,8 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : = 0,5 mg/kg

PNEC

N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1
Limit value type : PNEC (Aquatic, freshwater)
Limit value : = 0,0017 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : = 0,0017 mg/kg
Limit value type : PNEC (Aquatic, marine water)
Limit value : = 0,0017 mg/kg
Limit value type : PNEC (Sediment, freshwater)
Limit value : = 269,46 mg/kg
Limit value type : PNEC (Sediment, marine water)

Limit value :	= 269,46 mg/kg
Limit value type :	PNEC Soil
Limit value :	= 1 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	= 1 mg/l

Methyl-1H-benzotriazole ; CAS No. : 29385-43-1

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	= 0,008 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	= 0,008 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	= 0,003 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	= 0,003 mg/kg
Limit value type :	PNEC Soil
Limit value :	= 0,002 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	= 39,4 mg/l

8.2 Exposure controls

Personal protection equipment



Eye/face protection

Use safety glasses. EN 166

Skin protection

Hand protection

Wear suitable gloves.

Recommended glove articles : EN ISO 374

Body protection

Suitable protective clothing : For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Respiratory protection

Respiratory protection necessary at: insufficient ventilation

Remark

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General information

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Other protection measures

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : yellowish
Odour : characteristic

Safety characteristics

Physical state :			Liquid	
Melting point/freezing point :	(1013 hPa)		No data available	
Initial boiling point and boiling range :	(1013 hPa)	>	250	°C
Decomposition temperature :	(1013 hPa)	>	250	°C
Flash point :	(1013 hPa)	>	270	°C
pH :			not determined	
Viscosity :	(40 °C)	=	114	mm^2/s
Viscosity :	(100 °C)	=	20	mm^2/s
log P O/W :			not applicable	
Vapour pressure :	(50 °C)	<	0,1	hPa
Density :	(20 °C)	=	1,05	g/cm^3
Relative vapour density :	(20 °C)		No data available	
Auto-ignition temperature :			No data available	
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	
Vapour pressure :	(20 °C)	<	0,1	hPa
Water solubility :	(20 °C)		practically insoluble	
Viscosity :	(20 °C)	=	230	mm^2/s
Oxidising liquids :	Not applicable.			

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Strong acid Strong alkali

10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Acute oral toxicity

Parameter :	LD50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimeth ylpentene ; CAS No. : 68411-46-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimeth ylpentene ; CAS No. : 68411-46-1)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg

Corrosion

Skin corrosion/irritation

Parameter :	Skin corrosion/irritation (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Rabbit
Result :	Non-irritant

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Parameter :	Serious eye damage/eye irritation (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Rabbit
Result :	Non-irritant

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Parameter :	Skin sensitisation (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Guinea pig
Result :	Not sensitising.
Method :	OECD 406

Sensitisation to the respiratory tract

Parameter :	Sensitisation to the respiratory tract (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Guinea pig
Result :	Not sensitising.
Method :	OECD 406

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

In vitro mutagenicity

Parameter :	Gene-mutations mammalian cells (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Result :	Ames test negative.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Adverse effects on developmental toxicity

Parameter :	NOAEL(C) (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimeth ylpentene ; CAS No. : 68411-46-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	= 18 mg/kg/d
Result :	Questionable.
Method :	OECD 443
Source :	Published on the ECHA website

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Based on available data, the classification criteria are not met.

Acute (short-term) fish toxicity

Parameter :	LC50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimeth ylpentene ; CAS No. : 68411-46-1)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 71 mg/l
Exposure time :	96 h
Parameter :	LC50 (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Brachydanio rerio (Zebra-fish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (Methyl-1H-benzotriazole ; CAS No. : 29385-43-1)
Species :	Brachydanio rerio (Zebra-fish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	= 180 mg/l
Exposure time :	96 h
Method :	OECD 203

Acute (short-term) toxicity to aquatic invertebrates

Parameter :	EC50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimeth ylpentene ; CAS No. : 68411-46-1)
Species :	Daphnia magna (Big water flea)

Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	= 51 mg/l
Exposure time :	48 h
Parameter :	EC50 (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 (Methyl-1H-benzotriazole ; CAS No. : 29385-43-1)
Species :	Daphnia pulex (water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	= 8,58 mg/l
Exposure time :	48 h
Method :	OECD 202

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimeth ylpentene ; CAS No. : 68411-46-1)
Species :	Algae
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 100 mg/l
Exposure time :	72 h
Parameter :	EC50 (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 100 mg/l
Exposure time :	72 h
Evaluation :	Harmless to algae up to the concentration tested.
Method :	OECD 201
Parameter :	EC50 (Methyl-1H-benzotriazole ; CAS No. : 29385-43-1)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	= 75 mg/l
Exposure time :	72 h
Method :	OECD 201

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter :	NOEC (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Desmodesmus subspicatus
Evaluation parameter :	Chronic (long-term) algae toxicity
Effective dose :	= 100 mg/l
Exposure time :	72 h
Method :	OECD 201

Toxicity to microorganisms

Parameter :	EC50 (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Species :	Activated sludge
Effective dose :	> 100 mg/l
Exposure time :	3 h
Method :	OECD 209

12.2 Persistence and degradability

Biodegradation

Parameter :	Biodegradation (N-phenyl-1,1,3,3-tetramethylbutylnaphthalen-1-amine ; CAS No. : 51772-35-1)
Evaluation :	Poorly biodegradable.
Method :	OECD 301B
Parameter :	BOD (% of ThOD) (Methyl-1H-benzotriazole ; CAS No. : 29385-43-1)
Inoculum :	Degree of elimination
Evaluation parameter :	Aerobic
Degradation rate :	= 4 %
Test duration :	28 d
Evaluation :	Not readily biodegradable (according to OECD criteria)
Method :	OECD 301F

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose according to legislation. Collect the waste separately. Waste for disposal is to be classified and labelled.

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

If recycling is not possible, dispose of the product in accordance with local regulations. Dispose of contents / container to a recognised waste disposal facility.

After intended use

15 01 10* (Packaging containing residues of or contaminated by dangerous substances)

SECTION 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. :

Other regulations (EU)

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

Remark

This product is not classified according to Directive 2012/18/EU.

National regulations

Störfallverordnung (12. BImschV)

Hazard categories

This product is not assigned to a hazard category.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.