

Turmopololoil 20 HD

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Issue date: 11/11/2022

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Supersedes:

Version: 1.0

SECTION 1: Identification

1.1 Product identifier

Product name	Turmopololoil 20 HD
Product form	Mixture
Type of product	greases, mineral oils, silicones
Product code	BU ETA

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use For professional use only

1.4 Details of manufacturer or importer

Supplier

Hilti (New Zealand) Ltd.
Level 1, Building B 600 South Road Ellerslie
Auckland 1051
New Zealand
T +64 9 571 9995
800 444 584 toll free - F +64 9526 7780
servicenz@hilti.com

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
Kaufering 86916
Deutschland
T +49 8191 906876
anchor.hse@hilti.com

1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service
+41 44 251 51 51 (international)
+64 9 571 9995
800 444 584 toll free

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Not classified

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	Conc.	Classification according to GHS NZ
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	CAS-No.: 6683-19-8	< 2.5	Not classified
N-((1,1,3,3-tetramethylbutyl)phenyl)naphthalen-1-amine	CAS-No.: 51772-35-1	< 2.5	Aquatic Chronic 4, H413
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	CAS-No.: 110-25-8	< 1	Not classified

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	Rinse immediately with plenty of water.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting.

4.2. Symptoms caused by exposure

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	May cause respiratory irritation.
Symptoms/effects after skin contact	Repeated or prolonged contact may cause slight irritation to the skin.
Symptoms/effects after eye contact	May cause slight irritation.

4.3. Medical attention and special treatment

Other medical advice or treatment	Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	ABC-powder. Sand. carbon dioxide (CO ₂), dry chemical powder, foam.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

General measures	Spilled material may present a slipping hazard.
Hazardous decomposition products in case of fire	Formation of toxic gases is possible during heating or in case of fire.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Spilled material may present a slipping hazard.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment	Equip cleanup crew with proper protection.
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Emergency procedures

Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store at temperatures not exceeding 25 °C. Protect from sunlight. Store in a well-ventilated place.

Incompatible products

Strong acids. Strong bases.

Incompatible materials

Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment

Avoid all unnecessary exposure.

Hand protection

Prolonged and/or repeated handling: Protective gloves. Butyl-rubber protective gloves > 120 min (EN 374)

Eye protection

Not necessary under the recommended storage and handling conditions

Environmental exposure controls

Avoid release to the environment.

Other information

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Physical state

Liquid

Appearance

Viscous.

Colour

amber

Odour

characteristic

Odour threshold

No additional information available

pH

No additional information available

Evaporation rate

No additional information available

Relative evaporation rate (butylacetate=1)

No data available

Melting point / Freezing point

Melting point: -40 °C

Boiling point

> 250 °C

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Flash point	270 °C
Auto-ignition temperature	No data available
Decomposition temperature	250 °C
Flammability	No additional information available
Vapour pressure	Vapour pressure: < 15 hPa (50 °C)
Relative density	No additional information available
Density	Density: 1.05 g/cm ³ Relative density: 0 (15,6 °C)
Solubility	insoluble in water. Soluble in organic solvents.
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	0.114 mm ² /s (40 °C)
Viscosity, dynamic	No data available
Explosive properties	No data available
Explosive limits	No additional information available
Minimum ignition energy	No data available

SECTION 10: Stability and reactivity

Reactivity	No additional information available
Chemical stability	The product is stable at normal handling and storage conditions. Stable under normal conditions.
Possibility of hazardous reactions	Stable under normal conditions of use. No dangerous reactions known under normal conditions of use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Direct sunlight. Extremely high or low temperatures.
Incompatible materials	Oxidizing materials.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO ₂). Toxic gases are released.

SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (6683-19-8)	
LD50 oral rat	> 5000 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 30 day(s))
LD50 dermal rabbit	> 3160 mg/kg (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 1.95 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine (110-25-8)	
LC50 Inhalation - Rat (Dust/Mist)	1.37 mg/l/4h

N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine (51772-35-1)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Skin, 14 day(s))

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

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Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

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Viscosity, kinematic	0.114 mm ² /s (40 °C)
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Not classified
Terrestrial invertebrate toxicity	Not classified
Other information	Avoid release to the environment.

Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (6683-19-8)	
LC50 - Fish [1]	> 100 mg/l (96 h, Brachydanio rerio, GLP)
EC50 - Crustacea [1]	> 86 mg/l (24 h, Daphnia magna, GLP)
ErC50 algae	> 100 mg/l (Other, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	1.36 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	10 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
LD50 dermal rabbit	> 3160 mg/kg (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LD50 oral rat	> 5000 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 30 day(s))

N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine (51772-35-1)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
BCF - Other aquatic organisms [1]	3321 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	8.23 (QSAR, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	6.2 (log Koc, Calculated value)
	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Skin, 14 day(s))
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male / female, Experimental value, Oral, 14 day(s))

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12.2. Persistence and degradability

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Persistence and degradability	Not established.
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (6683-19-8)	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	1.79 – 2.38 g O ₂ /g substance
ThOD	2.55 g O ₂ /g substance
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine (110-25-8)	
Not rapidly degradable	
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine (51772-35-1)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

Turmopololoil 20 HD	
Bioaccumulative potential	No additional information available
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (6683-19-8)	
Partition coefficient n-octanol/water (Log Pow)	1.36 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	10 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Low potential for bioaccumulation (molecular mass >=700 g/mol).
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine (51772-35-1)	
BCF - Other aquatic organisms [1]	3321 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	8.23 (QSAR, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	6.2 (log Koc, Calculated value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

12.4. Mobility in soil

Turmopololoil 20 HD	
Mobility in soil	No additional information available
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (6683-19-8)	
Surface tension	Not applicable (water solubility < 1 mg/l)
Partition coefficient n-octanol/water (Log Pow)	1.36 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	10 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for mobility in soil.
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine (51772-35-1)	
Surface tension	Not applicable (solid)
Partition coefficient n-octanol/water (Log Pow)	8.23 (QSAR, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	6.2 (log Koc, Calculated value)

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N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine (51772-35-1)	
Ecology - soil	Adsorbs into the soil.

12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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Full text of H-statements	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
H413	May cause long lasting harmful effects to aquatic life

SDS_NZ_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.