

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 17/09/2024 Revision date: 17/09/2024 Supersedes version of: 11/11/2022

Version: 2.0

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

#### 1.1. Product identifier

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

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec Use of the substance/mixture For professional use only Lubricants, greases, release agents

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier	Department issuing data specification sheet	
Hilti France S.A.S.	Hilti AG	
126 rue Gallieni	Feldkircherstraße 100	
FR 92100 Boulogne-Billancourt	FL 9494 Schaan	
France	Liechtenstein	
T +33 825 01 05 05 T +423 234 2111		
fr-contactez-nous@hilti.com	product.compliance-power.tools@hilti.com	

#### 1.4. Emergency telephone number

Emergency number

Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number	Comment
France	ORFILA Institut National de Recherche et de Sécurité (INRS)	65 Boulevard Richard Lenoir 75011 Paris	+33 1 45 42 59 59	

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects No additional information available

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements

EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT and/or vPvB substances  $\geq$  0.1% assessed in accordance with REACH Annex XIII



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Component	
tetrakis(methylene(3,5-di-tert-butyl-4-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
hydroxyhydrocinnamate))methane (6683-19-8)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
amine (51772-35-1)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)	PBT: not yet assessed vPvB: not yet assessed

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
tetrakis(methylene(3,5-di-tert-butyl-4- hydroxyhydrocinnamate))methane (6683-19-8)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1- amine (51772-35-1)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tetrakis(methylene(3,5-di-tert-butyl-4- hydroxyhydrocinnamate))methane substance possédant une/des valeurs limites d'exposition professionnelle nationales (FR)	CAS-No.: 6683-19-8 EC-No.: 229-722-6 REACH-no: 01-2119491301- 46	< 2,5	Not classified
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1- amine	CAS-No.: 51772-35-1 EC-No.: 257-406-8	< 2,5	Aquatic Chronic 4, H413
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	CAS-No.: 68411-46-1 REACH-no: 01-2119491299- 23	< 2,5	Repr. 2, H361f Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16



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4.1. Description of first aid measures	
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medica 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. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects Symptoms/effects after inhalation	Not expected to present a significant hazard under anticipated conditions of normal use. 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. Indication of any immediate medic	al attention and special treatment needed
Treat symptomatically.	

5.1. Extinguishing media		
Suitable extinguishing media	ABC-powder. Sand. carbon dioxide (CO2), dry chemical powder, foam.	
Unsuitable extinguishing media	Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	Formation of toxic gases is possible during heating or in case of fire.	
5.3. Advice for firefighters		
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.	
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.	
Emergency procedures	Ventilate area.	
6.2. Environmental precautions		
Avoid release to the environment. Prevent entry to sewers and public waters.		
6.3. Methods and material 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.	

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".



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1.1. 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.
2.2. Conditions for safe storage, inclu	Iding any incompatibilities
Storage conditions	Store at temperatures not exceeding 25 °C. Protect from sunlight. Store in a well-ventilated place.
ncompatible products	Strong acids. Strong bases.
ncompatible materials	Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
lo additional information available	

#### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate))methane (6683-19-8)	
France - Occupational Exposure Limits	
VME (OEL TWA)	7 mg/m <sup>3</sup>

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

Personal protective equipment:

### Avoid all unnecessary exposure.

#### 8.2.2.1. Eye and face protection

Eye protection:

Not necessary under the recommended storage and handling conditions

#### 8.2.2.2. Skin protection

#### Hand protection:

Prolonged and/or repeated handling: Protective gloves. Butyl-rubber protective gloves

#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

No additional information available



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#### 8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use. No additional information available

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	amber.
Appearance	Viscous.
Odour	characteristic.
Odour threshold	Not available
Melting point	-40 °C
Freezing point	Not available
Boiling point	> 250 °C
Flammability	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	270 °C
Auto-ignition temperature	Not available
Decomposition temperature	250 °C
рН	Not available
Viscosity, kinematic	114 mm²/s (40 °C)
Solubility	insoluble in water. Soluble in organic solvents.
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	< 15 hPa (50 °C)
Vapour pressure at 50°C	Not available
Density	1,05 g/cm <sup>3</sup>
Relative density	0 (15,6 °C)
Relative vapour density at 20°C	Not available
Particle characteristics	Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions. Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use. No dangerous reactions known under normal conditions of use.

#### 10.4. 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.



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#### 10.5. Incompatible materials

Oxidizing materials.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO2). Toxic gases may be formed.

#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (oral)	Not classified		
Acute toxicity (dermal)	Not classified		
Acute toxicity (inhalation)	Not classified		
tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydro	tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate))methane (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))		
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-a	mine (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		
Reproductive toxicity	Not classified		
STOT-single exposure	Not classified		
STOT-repeated exposure	Not classified		
Aspiration hazard	Not classified		
Turmopololoil 20 HD			
Viscosity, kinematic	114 mm²/s (40 °C)		

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

#### 11.2.2. Other information

Potential adverse human health effects and symptoms

Based on available data, the classification criteria are not met

<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term	Not classified
(acute)	
Hazardous to the aquatic environment, long-term	Not classified
(chronic)	



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tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate))methane (6683-19-8)		
LC50 - Fish [1]	> 100 mg/l (96 h, Brachydanio rerio, GLP)	
ErC50 algae	> 100 mg/l (Other, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, GLP)	
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphth	alen-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)	
Benzenamine, N-phenyl-, reaction product	s with 2,4,4-trimethylpentene (68411-46-1)	
LC50 - Fish [1]	> 100 mg/l	
LC50 - Other aquatic organisms [1]	> 100 mg/l	

#### 12.2. Persistence and degradability

Turmopololoil 20 HD		
Persistence and degradability	Not established.	
tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate))methane (6683-19-8)		
Persistence and degradability	Not readily biodegradable in water.	
Chemical oxygen demand (COD)	1,79 – 2,38 g O <sub>2</sub> /g substance	
ThOD	2,55 g O <sub>2</sub> /g substance	
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

tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate))methane (6683-19-8)		
Partition coefficient n-octanol/water (Log Pow)	1,36 (Experimental 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)	
Bioaccumulative potential	Potential for bioaccumulation (500 $\leq$ BCF $\leq$ 5000).	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)		
Bioconcentration factor (BCF REACH)	411	

#### 12.4. Mobility in soil

tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate))methane (6683-19-8)		
Surface tension	Not applicable (water solubility < 1 mg/l)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	10 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	



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tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate))methane (6683-19-8)		
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)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	6,2 (log Koc, Calculated value)	
Ecology - soil	Adsorbs into the soil.	

#### 12.5. Results of PBT and vPvB assessment

Turmopololoil 20 HD
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

Additional information

Avoid release to the environment.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations Ecological information European List of Waste (LoW, EC 2000/532) Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. 13 01 13\* - other hydraulic oils

#### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID / ΙΑΤΑ ADR IMDG 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



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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/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)** 

EU restriction list (REACH Annex XVII)		
Reference code	eference code Applicable on	
3(b)	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
3(c)	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**



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Indication of changes			
Section	Changed item	Change	Comments
1.3	Department issuing data specification sheet	Modified	
1.4	Emergency number	Modified	
3.2	Composition/information on ingredients	Modified	
15.1	REACH Annex XVII	Added	

Full text of H- and EUH-statements:		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4	
EUH210	Safety data sheet available on request.	
H361f	Suspected of damaging fertility.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
Repr. 2	Reproductive toxicity, Category 2	

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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.