

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9-5-2018 Revision date: 20-12-2022 Supersedes version of: 19-9-2022 Version: 1.4

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Torsynth 20W-50
Product code	: 01.30.87
Product group	: Trade product

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

#### 1.2.1. Relevant identified uses

Main use category Use of the substance/mixture Function or use category : Industrial use, Professional use, Consumer use

#### : Engine oil

: Lubricants and additives

#### 1.2.2. Uses advised against

No additional information available

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

Kroon Oil BV B.V. Dollegoorweg, 15 NL– 7602 EC Almelo Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

#### **1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Cardiff	0344 892 0111	Only for healthcare professionals

### **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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

EUH-statements

: EUH208 - Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts. May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

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#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 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 at a concentration equal to or greater than 0,1 %

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

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

#### Comments

: Highly refined mineral oils and additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Blend of mineral oils * (*)(Note L)	-	10 – 20	Asp. Tox. 1, H304
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	CAS-No.: 68784-31-6 EC-No.: 272-238-5 REACH-no: 01-2119657973- 23	0,3 – 2,5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	CAS-No.: 36878-20-3 EC-No.: 253-249-4 REACH-no: 01-2119488911- 28	0,3 – 2,5	Aquatic Chronic 4, H413
Benzenesulfonic acid, methyl-, mono-C20-24- branched alkyl derivs., calcium salts	CAS-No.: 722503-68-6 EC-No.: 682-816-2	0,1 – 1	Skin Sens. 1B, H317

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	CAS-No.: 68784-31-6 EC-No.: 272-238-5 REACH-no: 01-2119657973- 23	( 10 ≤C < 100) Eye Dam. 1, H318 ( 10 ≤C < 100) Eye Irrit. 2, H319	
Benzenesulfonic acid, methyl-, mono-C20-24- branched alkyl derivs., calcium salts	CAS-No.: 722503-68-6 EC-No.: 682-816-2	( 2 ≤C < 100) Skin Sens. 1B, H317	

#### Comments

: The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

\*: contains one or more of the following CAS-numbers (REACH registration numbers):

64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36), 64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48), 72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 74869-22-0 (01-2119495601-36)

Note L : The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ('Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method' Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center or a doctor if you feel unwell.</li> </ul>
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/effects	: No additional information available.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. : Do not use a heavy water stream.
5.2. Special hazards arising from the subst	ance or mixture
Fire hazard Hazardous decomposition products in case of fire	<ul> <li>Combustible liquid.</li> <li>Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.</li> </ul>
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel Emergency procedures	· Ventilate spillage area.			
6.1.2. For emergency responders Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containment and cleaning up				
Methods for cleaning up Other information	<ul> <li>Take up liquid spill into absorbent material.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>			

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapour.

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Hygiene measures	: 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	: Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.
Storage temperature	: 0-40 °C
7.3. Specific end use(s)	

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Torsynth 20W-50	
EU - Indicative Occupational Exposure Limit (IOEL)	
Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended	5 mg/m³ - ACGIH TLV (inhalable fraction).

#### 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 symbol(s):



#### 8.2.2.1. Eye and face protection

#### Eye protection: Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

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### 8.2.2.2. Skin protection

### Skin and body protection:

Wear suitable protective clothing

## Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥0.35		EN ISO 374

#### Other skin protection

### Materials for protective clothing:

Wear suitable protective clothing

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and ch	emical properties		
Physical state	: Liquid		
Colour	: Brown.		
Odour	: characteristic.		
Odour threshold	: Not available		
Melting point	: Not applicable		
Freezing point	: -33 °C - ASTM D5950 (pour point)		
Boiling point	: Not available		
Flammability	: Not applicable		
Explosive properties	: Presents no particular fire or explosion hazard.		
Explosive limits	: Not available		
Lower explosion limit	: Not available		
Upper explosion limit	: Not available		
Flash point	: 226 °C - ASTM D92 (COC)		
Auto-ignition temperature	: Not available		
Decomposition temperature	: Not available		
pH	: Not available		
Viscosity, kinematic	: 127 mm²/s (40 °C) - ASTM D7279		
Solubility	: Water: Insoluble / Slightly miscible		
Partition coefficient n-octanol/water (Log Kow)	: Not available		
Vapour pressure	: Not available		
Vapour pressure at 50°C	: Not available		
Density	: 0,875 kg/l (15 °C) - ASTM D4052		
Relative density	: Not available		
Relative vapour density at 20°C	: Not available		
Particle characteristics	: Not applicable		

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#### 9.2. Other information

9.2.1.	Information	with re	egard to	physical	hazard classes
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No additional information available

#### 9.2.2. Other safety characteristics

VOC content

: 0%

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** 

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with (strong) oxidizers.

**10.4. Conditions to avoid** 

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials** 

No additional information available

**10.6. Hazardous decomposition products** 

No decomposition if stored normally.

SECTION 11: Toxicological information			
11.1. Information on hazard classes as define	d in Regulation (EC) No 1272/2008		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified		
Blend of mineral oils *			
LD50 oral rat	> 5000 mg/kg Data from similar product		
LD50 dermal rabbit	> 5000 mg/kg Data from similar product		
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l/4h Data from similar product		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
LD50 oral rat	2900 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
Reaction products of Benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)			
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:		
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)		
Skin corrosion/irritation :	Not classified		

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рН	$\approx$ 7 Temp.: 25 °C Concentration: ( $\approx$ )0,00116 other: Remarks on result: 'other:'		
erious eye damage/irritation : Not classified			
Phosphorodithioic acid, mixed O,O-	-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)		
рН	$\approx$ 7 Temp.: 25 °C Concentration: ( $\approx$ )0,00116 other: Remarks on result: 'other:'		
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		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents)		
Aspiration hazard	: Not classified		
Torsynth 20W-50			
Viscosity, kinematic	127 mm²/s (40 °C) - ASTM D7279		
Blend of mineral oils *			
Viscosity, kinematic	< 20,5 mm²/s		
Aliphatic, alicyclic or aromatic hydrocarbon	Yes		

No additional information available

SECTION 12:	Ecological	information
	LUUUyitai	mormation

Hazardous to the aquatic environment, short-term : (acute)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified		
Blend of mineral oils *			
LC50 - Fish [1]	> 100 mg/l Data from similar product		
EC50 - Crustacea [1]	> 10000 mg/l Data from similar product		
EC50 72h - Algae [1]	> 100 mg/l Data from similar product		
NOEC chronic crustacea	> 10 mg/l		
NOEC chronic algae	> 10 mg/l (Water flea (Daphnia magna), 21 d)		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
LC50 - Fish [1]	46 mg/l Test organisms (species): Cyprinodon variegatus		
EC50 - Crustacea [1]	75 mg/l (48h, Daphnia magna)		
EC50 72h - Algae [1]	240 mg/l (72h, Scenedesmus subspicatus)		
NOEC chronic crustacea	0,8 mg/l (21d)		

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Reaction products of Benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)			
LC50 - Fish [1]	> 100 mg/l Brachydanio rerio (zebra-fish)		
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	> 100 mg/l		
NOEC chronic crustacea	> 10 mg/l		
NOEC chronic algae	> 10 mg/l		
12.2. Persistence and degradability			
Reaction products of Benzeneamine, N-phen	yl- with nonene (branched) (36878-20-3)		
Biodegradation	1 % (test concentration 20,1 mg/l)		
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Endocrine disrupting properties			
No additional information available			
12.7. Other adverse effects			
No additional information available			

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Do not allow into drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations European List of Waste (LoW) code	<ul> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils</li> </ul>

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID						
ADR	IMDG IATA ADN			RID		
14.1. UN number or ID n	umber					
Not applicable	Not applicable         Not applicable         Not applicable         Not applicable					
14.2. UN proper shipping name						
Not applicable	applicable Not applicable Not applicable Not applicable Not applicable					
14.3. Transport hazard class(es)						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		

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ADR	IMDG IATA ADN		ADN	RID		
14.5. Environmental hazards						
Not applicable	Not applicable         Not applicable         Not applicable					
No supplementary information available						
14.6. Special precautions for user						

## Overland transport

Not applicable

#### Transport by sea Not applicable

#### Air transport

Not applicable

#### **Inland waterway transport** Not applicable

#### Rail transport

Not applicable

#### 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)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **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)

### VOC Directive (2004/42)

VOC content

: 0 %

#### **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)

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### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes				
Section	Changed item	Change	Comments	
3	Composition/information on ingredients	Modified		
15.1	REACH Annex XVII	Modified		

Abbreviations and ac	Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	

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Abbreviations and acronyms:	
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Skin Sens. 1B	Skin sensitisation, category 1B

Safety Data Sheet (SDS), EU

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.