

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 17-5-2018 Revision date: 28-4-2025 Supersedes version of: 13-6-2024 Version: 1.10

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

## 1.1. Product identifier

Product form	: Mixture
Trade name	: Torsynth 5W-40
Product code	: 01.30.22
Type of product	: Lubricants
Product group	: Trade product

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

#### Relevant identified uses

Main use category Use of the substance/mixture : Industrial use,Professional use,Consumer use : Engine oil

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

Kroon-Oil 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/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+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	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.

#### 2.3. Other hazards

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

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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 %

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

### 3.2. Mixtures

#### Comments

: Highly refined mineral oils and additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	25 – 50	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
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 (%)
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.

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

#### **SECTION 4: First aid measures** 4.1. Description of first aid measures First-aid measures general : If you feel unwell, seek medical advice. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution. First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects : No additional information available. Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. Symptoms/effects after skin contact None under normal conditions. Symptoms/effects after eye contact None under normal conditions. Symptoms/effects after ingestion None under normal conditions.

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# 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	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	<ul> <li>Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipm	nent and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.		
For non-emergency personnel			
	: Wear recommended personal protective equipment. : Ventilate spillage area.		
For emergency responders			
	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			
For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.		
Methods for cleaning up Other information	: Take up liquid spill into absorbent material. : Dispose of materials or solid residues at an authorized site.		

6.4. Reference to other sections For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Provide good ventilation in process area to prevent formation of vapour.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>

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7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Keep in a cool, well-ventilated place away from heat.	
Storage conditions	: Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.	
Storage temperature	: 0 – 40 °C	
Packaging materials	: Store always product in container of same material as original container.	
7.3. Specific end use(s)		

No additional information available

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### National occupational exposure and biological limit values

Torsynth 5W-40	
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).

# 8.2. Exposure controls

# Appropriate engineering controls

**Appropriate engineering controls:** Ensure good ventilation of the work station.

## Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment symbol(s):



### Eye and face protection

Eye protection: Safety glasses

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

#### **Skin protection**

Skin and body protection: Wear suitable protective clothing

#### Hand protection:

Protective gloves

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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

#### **Respiratory protection**

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

### **Environmental exposure controls**

#### Environmental exposure controls:

Avoid release to the environment.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: brown.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -39 °C - ASTM D5950 (pour point)
Boiling point	: Not available
Flammability	: Non flammable.
Explosive properties	: Presents no particular fire or explosion hazard.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 230 °C - ASTM D92 (COC)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 83,9 mm²/s (40 °C) - ASTM D7042
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	: 0,856 kg/l (15 °C) - ASTM D4052
Relative density	Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable
9.2 Other information	

#### 9.2. Other information

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.

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## 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 defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) : Acute toxicity (dermal) :	Not classified Not classified		
	Not classified		
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)		
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
LC50 Inhalation - Rat	> 5,53 mg/l/4h		
Phosphorodithioic acid, mixed O,O-bis(sec-B	u 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)		
Skin corrosion/irritation :	Not classified		
Serious eye damage/irritation :	Not classified (The eye irritation hazard is based on an evaluation of the data for similar products. These data show that a specific component present in this product antagonizes (or decreases the severity of) the eye irritation of the ZnDTP.)		
Phosphorodithioic acid, mixed O,O-bis(sec-B	u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)		
Additional information	The eye irritation hazard is based on an evaluation of the data for similar products. These data show that a specific component present in this product antagonizes (or decreases the severity of) the eye irritation of the ZnDTP.		
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 5W-40			
Viscosity, kinematic	83,9 mm²/s (40 °C) - ASTM D7042		

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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Viscosity, kinematic	< 20,5 mm²/s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
11.2. Information on other hazards	

No additional information available

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general :	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short-term : (acute)	Not classified	
Hazardous to the aquatic environment, long-term : (chronic)	Not classified	
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)	
LC50 - Fish [1]	> 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)	
EC50 - Crustacea [1]	> 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)	
EC50 72h - Algae [1]	> 100 mg/l	
NOEC (acute)	≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)	
NOEC chronic crustacea	10 mg/l (Daphnia magna, 21d) (OECD 211 method)	
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)	
12.2. Persistence and degradability		

Torsynth 5W-40		
Persistence and degradability Not rapidly degradable		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Persistence and degradability Not rapidly degradable		
Biodegradation 31 % (28d) (OECD 301F method)		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc sa		
Persistence and degradability Not rapidly degradable		

Persistence and degradability	Not rapidly degradable	
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (722503-68-6)		
Persistence and degradability	Not rapidly degradable	

lts (68784-31-6)

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

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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		

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Do not allow into drains or water courses. Dispose of contents/container in accordance with
	licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Do not re-use empty containers.
European List of Waste (LoW, EC 2000/532)	: 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils
HP Code	: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin
	irritation or damage to the eye.

# **SECTION 14: Transport information**

# In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber	· · · · ·		
Not regulated for transport				
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	lass(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.6. Special precautions for user

#### Overland transport Not regulated

Transport by sea Not regulated

Air transport Not regulated

Inland waterway transport Not regulated

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## 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

#### **EU-Regulations**

### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Distillates (petroleum), hydrotreated heavy paraffinic ; Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts ; Benzenesulfonic acid, methyl-, mono-C20-24- branched alkyl derivs., calcium salts	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

### **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)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### 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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# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# SECTION 16: Other information

Indication of changes		
Section Changed item Comments		
3	Composition/information on ingredients	Modified

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	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	

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Abbreviations and acronyms:	
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
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
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
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.