according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond PRO**

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

1.1 Product identifier:

Metabond PRO

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

Relevant identified uses: lubricating oil.

Uses advised against: application other than the above.

Data of supplier:

Metabond Magyarország Kft. 9030 Győr, Szigligeti Ede u. 5.

Tel: +36 96 332738 Mobile: +36 70 2719575 www.metabond.hu

Responsible for SDS:

Metabond Magyarország Kft. 9030 Győr, Szigligeti Ede u. 5.

Tel: +36 96 332738 Mobile: +36 70 2719575

E-mail: metabond@metabond.hu

www.metabond.hu

1.4 Emergency telephone number

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary). +36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Hazard Class and Category: Hazard statement:

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Product identification: Trade name: Metabond PRO

Hazardous components: -

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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GHS Pictogram: not required Signal word: not required

Hazard statement:

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information:

EUH208 Contains Maleic acid anhydride. May produce an allergic reaction.

Precautionary statements – General:

-

Precautionary statements – Prevention:

P273 Avoid release to the environment.

Precautionary statements – Response:

-

Precautionary statements – Storage:

_

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006, at a concentration of 0.1% or more.

The product contains the endocrine disrupting substance: branched-chain dodecylphenol (CAS: 121158-58-5). Endocrine disrupting properties (Article 57(f) - human health) Endocrine-disrupting properties (Article 57(f) - environment)

SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: High refining grade mineral oil, with additives.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Component(s) / Hazardous component(s):

Name	EC	CAS	Hazard classes and	Hazard	Conc.
	number	number	cat.		
Mineral oil*,** REACH Registr. Nr.: no data	-	-	Asp. Tox. 1 (Note L)	H304	max. 25
Fatty acids, C8-10, triesters with trimethylolpropane * REACH Registr. Nr.: 01-2119976292-31	293-036-3	91050-89-4	-	-	max. 18
4,4'-methylene bis (dibutyldithiocarbamate) REACH Registr. Nr.: 01-2119969655-20	233-593-1	10254-57-6	Aquatic Chronic 4	H413	max. 15
Calcium branched alkyl phenate sulphide (overbased) REACH Registr. Nr.: polymer	-	-	Aquatic Chronic 4	H413	max. 5.0
Distillates (petroleum), hydrotreated heavy paraffinic REACH Registr. Nr.: 01-2119484627-25	265-157-1	64742-54-7	Asp. Tox. 1 (Note L)	Н304	max. 5.0
Zinc dialkyl dithiophosphate*** REACH Registr. Nr.: 01-2119953275-34	218-679-9	2215-35-2	Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 2	H315 H318 H411	max. 2.5
Boron nitride REACH Registr. Nr.: no data	233-136-6	10043-11-5	-	-	max. 1.5
Phosphorodithioic acid, mixed O,O-bis(1,3- dimethylbutyl and iso- Pr)esters, zinc salts **** REACH Registr. Nr.: 01-2119493626-26	283-392-8	84605-29-8	Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 2	H315 H318 H411	max. 1.3
2,6-di-tert-butylphenol REACH Registr. Nr.: 01-2119490822-33	204-884-0	128-39-2	Skin Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1	H315 H400 (M=1) H410 (M=1)	max. 0.5
Phenol, dodecyl-, branched REACH Registr. Nr.: 01-2119513207-49	310-154-3	121158-58-5	Skin Corr. 1C Eye Dam. 1 Repr. 1B Aquatic Acute 1 Aquatic Chronic 1	H314 H318 H360F H400 (M=10) H410 (M=10)	max. 0.13

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Maleic acid anhydride**** REACH Registr. Nr.: 01-2119472428-31	203-571-6	108-31-6	Acute Tox. 4 Skin Corr. 1B Skin Sens. 1A Eye Dam. 1 Resp. Sens. 1 STOT RE 1	H302 H314 H317 H318 H334 H372	<0.001

^{*:} with exposure limit

**Contains one or more of the following:

REACH reg. szám: 01-2119484627-25 / EK: 265-157-1;

REACH reg. szám: 01-2119471299-27 / EK: 265-169-7;

REACH reg. szám: 01-2119487077-29 / EK: 265-158-7;

REACH reg. szám: 01-2119480132-48 / EK: 265-159-2.

*** Specific concentration limit: Eye Dam. 1; : $10 \% < C \le 100 \%$

**** Specific concentration limit: Skin Irrit. 2: 6,25 % \leq C \leq 100 %; Eye Irrit. 2: 10 % < C \leq 12.5 %; Eye Dam. 1: 12.5 % < C \leq 100 %

***** Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0,001 %

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.

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never

induce vomiting.

Inhalation: Remove the affected person to fresh air. Call a doctor if you have breathing

problems or other complaints.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use

soap. Do not use solvents or thinners. In case of persistent irritation, get medical

attention.

Eye contact: Flush eyes with plenty of water for 15 minutes. In case of persistent irritation, get

medical attention.

Ingestion: If swallowed, rinse the mouth with water. Do not induce vomiting. Get medical

attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Fire hazards:

Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol-resistant foam, carbon dioxide, dry chemical powder, water spray.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, nitrogen oxides, various hydrocarbons and soot can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations.

In confined or poorly ventilated spaces, full protective clothing and isolation breathing apparatus.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Further information:

In case of fire, keep containers cool with water spray.

Collect contaminated fire-fighting water separately. It must not enter the sewage system. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Danger of slipping on leaked out/spilled product.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: All kind of ignition sources should be removed. Recover free liquid by

pumping. Contain the rest or small quantities with sand, earth, diatomaceous

earth, vermiculite. Dispose of according to local regulations.

On water: Notify local authorities according to regulations. If possible, an oil binder

should be used to remove it from the water surface.

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants and flammable liquids.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

Keep unused containers closed.

Ensure washing facilities after working hours and before breaks.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke.

Handling temperature: no data.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.

Store in dry, well-ventilated place in original, closed containers.

Keep away from radiant heat, open flame and strong oxidizing agents.

Storage temperature: no data.

7.3 Specific end use(s)

Lubricating oil.

SECTION 8 Exposure controls / personal protection

8.1 Control parameters:

Maleic acid anhydride (CAS: 108-31-6)

Germany

Arbeitsplatzgrenzwert

Überschreitungsfaktor

0.02 ppm 0.081 mg/m^3

1;=2,5=(I)

DFG, Sah, Y, 11

United Kingdom

8-hr TWA 1 mg/m^3 15-minute 3 mg/m^3

15-minute 3 mg/m³

Mineral oil mist: TWA: 5 mg/m

TWA: 5 mg/m³; STEL: 10 mg/m³, for oil mist, vapour excluded

(ACGIH).

Method of testing, recommended: NIOSH 5026

Consult national authorities for acceptable exposure limits.

8.2 Exposure controls

Engineering control measures:

Adequate ventilation (general or local exhaust).

Personal protection:

(a) Eye/face protection

Where splashing is possible, wear safety glasses (EN 166).

(b) Skin protection

(i) Hand protection

Oil resistant gloves (EN 374), (Material e.g. neoprene, nitrile,

layer thickness: min. 0.35 mm).

Note: Manufacturer's directions for use and the conditions of

application should be observed.

(ii) Other Protective clothing, chemical-resistant footwear

(c) Respiratory protection Under normal conditions not required. In case of inadequate

ventilation, respiratory protection with filter cartridge should be

used (ISO EN 143).

(d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state: liquid

b) Colour: dark reddish-brown

c) Odour: hydrocarbon

d) Melting point/freezing point (Pour point): not available

e) Boiling point or initial boiling point and boiling

range: not available

f) Flammability: combustible g) Lower and upper explosion limit: not available

h) Flash point: not availablei) Auto-ignition temperature: not available

j) Decomposition temperature: not available

k) pH: not applicablel) Kinematic viscosity at:

40°C: 342.9 mm²/s

 100° C $32.61 \text{ mm}^2/\text{s}$

m) Solubility

Solubility in water: not available Solubility in other solvents: not available

n) Partition coefficient n-octanol/water (log value): not available o) Vapour pressure at 20°C: not available

p) Density and/or relative density: kb. 0.9569 g/cm³ q) Relative vapour density: not available

r) Particle characteristics: not available

9.2 Other information

Total Acid Number (TAN) (ASTM D 664-11a): 9.01 mg/g KOH Total base number (ASTM D 4739-11): 4.09 mg/g KOH

Corrosion effect on copper plate (100°C, 1 hour)

(MSZ EN ISO 1 a 2160:2000): 1 a (grade k)

SECTION 10 Stability and reactivity

10.1 Reactivity: Dangerous reactivity not known.

10.2 Chemical stability: No decomposition if stored and handled properly.

10.3 Possibility of hazardous reactions: Not known.

10.4 Conditions to avoid: Direct heat or ignition sources. High temperature.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: No dangerous decomposition products are formed under

normal conditions. Hazardous combustion products: See

Section 5.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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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

Components:

4,4'-methylene bis (dibutyldithiocarbamate) (CAS: 10254-57-6):
Oral: LD₅₀ (rat) > 2 000 mg/kg
Dermal: LD₅₀ (rabbit) 16 000 mg/kg

Boron nitride (CAS: 10043-11-5):

Oral: LD₅₀ (rat) > 50~000~mg/kgDermal: LD₅₀ (rabbit) > 20~000~mg/kg

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/irritation: Respiratory or skin sensitisation: Based on available data, the classification criteria are not met. Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met. 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

No data.

SECTION 12 Ecological information

12.1 Toxicity Harmful to aquatic life with long lasting effects.

Components:

4,4'-methylene bis (dibutyldithiocarbamate) (CAS: 10254-57-6):

Algae: EC50 > 0.0325 mg/l 72 h Acute (Daphnia): EC_{50} > 0.052 mg/l 48 h Acute (Microorganisms): > 1~000~mg/13 h EC_{50} Acute (Fish): > 0.06 mg/l96 h LC50 Acute (Algae): 0.0325 mg/l72 h NOEC Acute (Daphnia): **NOEC** $0.052 \, \text{mg/l}$ 48 h Acute (Fish): $0.06 \, \text{mg/l}$ 96 h **NOEC**

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Acute (Microorganisms):	NOEC	1 000	mg/l	3 h
Chronic (Daphnia):	NOEC	0.247	_	21 days
Mineral oil (CAS: -):				
Fish (Cyprinus carpio):	LC_{50}	> 100	mg/l	96 h
Daphnia (Daphnia magna):	EC ₅₀	> 10 000		48 h
Daphnia (Daphnia magna):	EC_{50}		mg/l	21 days
Daphnia (Daphnia magna):	NOEC		mg/l	21 days
Algae (Scenedesmus quadricauda):	EC_{50}	> 100		72 h
Calcium branched alkyl phenate sulphide (ov	verbased)	(CAS: -):		
Fish (Cyprinus carpio):	LC_{50}		mg/l	96 h
Daphnia (Daphnia magna):	EC ₅₀		_	48 h
Algae (Selenastrum capricornutum):	EC_{50}			72 h
Microorganisms:	EC ₅₀		_	0.1 days
Zinc dialkyl dithiophosphate (CAS: 2215-35-	.2):			
Fish (Oncorhynchus mykiss):	LC ₅₀	4.5	mg/l	96 h
Fish (Cyprinus carpio):	LC_{50}		mg/l	96 h
Daphnia (Daphnia magna):	EC ₅₀		mg/l	48 h
Daphnia (Daphnia magna):	NOEC		mg/l	21 days
Algae (Scenedesmus quadricauda):	EC_{50}		mg/l	72 h
Microorganisms:	EC ₅₀		_	0.1 days
Distillates (petroleum), hydrotreated heavy p	paraffinic ((CAS: 64742	?-54-7):	
Fish (Cyprinus carpio):	LC_{50}	> 100		96 h
Daphnia (Daphnia magna):	EC ₅₀		_	48 h
Daphnia (Daphnia magna):	EC ₅₀		mg/l	21 days
Daphnia (Daphnia magna):	NOEC		mg/l	21 days
Algae (Pseudokirchneriella subcapitata):	EC ₅₀	> 100		72 h
Algae (Pseudokirchneriella subcapitata):	NOEC	≥ 100	_	72 óra
Phosphorodithioic acid, mixed O,O-bis(1,3-84605-29-8):	-dimethylb	outyl and isc	o-Pr)este	ers, zinc salts (C.
Fish (Oncorhynchus mykiss):	LC_{50}	4.5	mg/l	96 h
· · · · · · · · · · · · · · · · · · ·	LC_{50}		mg/l	96 h
Fish (Cyprinus carpio):			_	48 h
Fish (Cyprinus carpio): Daphnia (Daphnia magna):	EC_{50}	23	mg/I	40 11
Fish (Cyprinus carpio): Daphnia (Daphnia magna): Daphnia (Daphnia magna):	EC ₅₀ EC ₅₀	> 0.8	mg/l mg/l	21 days

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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	Algae (Scenedesmus quadricauda):	EC_{50}		mg/l	72 h	
Algae (Scenedesmus quadricauda):		NOEC	10	mg/l	72 h	
	2,6-di-tert-butylphenol (CAS: 128-39-2):					
	Fish (Oncorhynchus mykiss):	LC_{50}	13	mg/l	96 h	
	Fish (Cyprinus carpio):	LC_{50}	1.4	mg/l	96 h	
	Daphnia (Daphnia magna):	EC_{50}	0.45	mg/l	48 h	
	Daphnia (Daphnia magna):	EC_{50}	0.8	mg/l	48 h	
	Algae (Selenastrum capricornutum):	EC_{50}	3.6	mg/l	72 h	
	Microorganisms:	EC_{50}	> 1 000	mg/l	0.1 days	
	Phenol, dodecyl-, branched (CAS: 121158-5	8-5):				
	Fish (Cyprinus carpio):	LC_{50}	40	mg/l	96 h	
	Daphnia (Daphnia magna):	EC_{50}	0.037		48 h	
	Crustacea (Mysidopsis Bahia):	EC_{50}	> 0.58	_	96 h	
	Daphnia (Daphnia magna):	EC ₅₀	0.0079	_	21 days	
	Daphnia (Daphnia magna):	NOEC	0.0077	_	21 days	
	Algae (Scenedesmus quadricauda):	EC ₅₀		mg/l	72 h	
	Microorganisms:	EC_{50}	> 1 000	_	0.1 days	
	Whereorganisms.	LC30	7 1 000	mg/1	o.i days	
	Maleic acid anhydride (CAS: 108-31-6):					
	Fish (Cyprinus carpio):	LC_{50}	75	mg/l	96 h	
	Daphnia (Daphnia magna):	EC_{50}	42.81	mg/l	48 h	
	Algae (Selenastrum capricornutum):	EC_{50}	74.35	mg/l	72 h	
	Boron nitride (CAS: 10043-11-5):					
	Fish (Oncorhynchus mykiss):	LC_{50}	> 100	mo/l	(experimental)	
	Daphnia (Daphnia magna):	EC ₅₀	> 100	_	(experimental)	
	Dapinna (Dapinna magna).	LC30	> 100	mg/1	(experimental)	
12.2	Persistence and degradability					
	Biodegradability:	No data for the product.				
	<i>4,4'-methylene bis (dibutyldithiocarbamate)</i>	*				
	(CAS: 10254-57-6):	Not easily degradable. 31% (28 days, OECD TG 301 B)				
	Mineral oil (CAS: -):					
			y degradable			
	Calcium branched alkyl phenate sulphide	·	-			
	(overbased) (CAS: -):	4.7 - 10.3	8% (28 days	, OECE	TG 301 B).	
		Not easil	y degradable	e.	•	
		Inherent sedimentation: 38.8% (28 days)				

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Zinc dialkyl dithiophosphate (CAS: 2215-

35-2):

Distillates (petroleum), hydrotreated heavy

paraffinic (CAS: 64742-54-7):

Phosphorodithioic acid, mixed O,O-bis(1,3dimethylbutyl and iso-Pr)esters, zinc salts

(CAS: 84605-29-8):

2,6-di-tert-butylphenol (CAS: 128-39-2):

Phenol, dodecyl-, branched (CAS: 121158-

58-5):

Maleic acid anhydride (CAS: 108-31-6):

12.3 Bioaccumulative potential

Fatty acids, C8-10, triesters with trimethylolpropane (CAS: 91050-89-4):

4,4'-methylene bis (dibutyldithiocarbamate)

(CAS: 10254-57-6):

Calcium branched alkyl phenate sulphide

(overbased) (CAS: -):

Phenol, dodecyl-, branched (CAS: 121158-

58-5):

Zinc dialkyl dithiophosphate (CAS: 2215-

35-2):

Phosphorodithioic acid, mixed O,O-bis(1,3dimethylbutyl and iso-Pr)esters, zinc salts

(CAS: 84605-29-8):

2,6-di-tert-butylphenol (CAS: 128-39-2):

Maleic acid anhydride (CAS: 108-31-6):

12.4 Mobility in soil Mobility in water:

12.5 Results of PBT and vPvB assessment

1.5% (28 days, OECD TG 301 B)

Not easily degradable.

31% (28 days, OECD TG 301 F)

Not easily degradable.

1.5% (28 days, OECD TG 301 B)

Not easily degradable.

5% (28 days, OECD TG 301 B)

24% (28 days, OECD TG 302 B)

Not easily degradable. 10% (56 days, Mixed)

25% (28 days, OECD TG 301 B)

Not easily degradable.

> 90% (28 days, OECD TG 301 E) 61% (28 days, OECD TG 302 B)

Easily degradable.

No data for the product.

Log Kow: $> 2.7 (22^{\circ}C)$

Log Pow: 8.42

BCF: 10,86 (low potential)

BCF: 2.2

Log Kow: 11.08

BCF: 794.33

Log Kow: 7.14

Log Kow: 2.21 (20 °C)

Log Kow: 0.56

Log Kow: 4.5 Log Kow: -0.048

No data.

Insoluble in water.

Does not contain PBT and vPvB substances, at

a concentration of 0.1% or more.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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12.6 Endocrine disrupting properties The product contains the endocrine disrupting

substance: branched-chain dodecylphenol (CAS: 121158-58-5). Endocrine disrupting

properties (Article 57(f) - human health)

Endocrine-disrupting properties (Article 57(f) -

environment)

12.7 Other adverse effects

Environmental effects: Large spillages may be hazardous to the

environment.

Water hazard class (German): WGK 2 (Classification by AwSV)

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 13 02 05*

Mineral-based non-chlorinated engine, gear and lubricating oils.

Recommended waste treatment method: no data

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

SECTION 14 Transport information

Land transport:

Road/ Railway ADR/RID: Not classified.

14.1 UN number or ID number: Not classified.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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14.2 UN proper shipping name:

14.3 Transport hazard class(es):
14.4 Packing group:
14.5 Environmental hazards:
14.6 Special precautions for user:
Not classified.
Not classified.
Not classified.

Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not apply to the product.

Air transport: ICAO / IATA: Not apply to the product.

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.

Seveso category: not classified.

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. b) 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. b) Hazard classes 3.1 to 3.6, 3.7 adverse Phenol, dodecyl-, branched (CAS: 121158-58-5):

15.2 Chemical safety assessment.

not available

SECTION 16 Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Classification for mixtures and used evaluation method according to regulation 1272/2008/EC

(CLP)

Aquatic Chronic 3 H412 calculated method

The full text of each	relevant H- phrase and Hazard classes and cat. in Section 3.:
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure through
	prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Acute Tox. 4	Acute toxicity Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1A	Respiratory/skin sensitization Category 1A,
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Resp. Sens. 1	Respiratory sensitization Category 1
Repr. 1B	Reproductive toxicity Category 1B
STOT RE 1	Specific target organ toxicity — repeated exposure Category 1
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1

Legend:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland

Aquatic Chronic 2 Hazardous to the aquatic environment, Chronic Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment, Chronic Category 4

Waterways

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate
BCF Bioconcentration Factor
BOD Biological Oxygen Demand

Bw Body Weight

C&L Classification and Labelling CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (1272/2008/EC)
CMR Carcinogenic, Mutagenic or toxic to Reproduction

COD Chemical Oxygen Demand
CSA Chemical Safety Assessment
CSR Chemical Safety Report
DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
ECHA European Chemicals Agency
Ecx Effective Concentration x%

ErC50 EC50 in terms of reduction of growth rate

Edx Effective Dose x%
EC European Community
EC number European Community number

ELINCS European List of Notified Chemical Substances

ES Exposure Scenario

IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

LCx Lethal Concentration x%

LDx Lethal Dose x%

LOAEC Lowest Observed Adverse Effect Concentration

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level NOEC No observed effect concentration

NOEL No observed effect level NLP No-Longer Polymer

NOAEL No Observed Adverse Effect Level

OECD Organisation for Economic Cooperation and Development

PBT Persistent Bioaccumulative and Toxic
PNEC Predicted No-Effect Concentration

ppm parts/million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International carriage of Dangerous Goods by Rail

SVHC Substance of Very High Concern

UVCB substance of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bio-accumulative

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Revision Indicators:						
Section	Subject of change	Date	Version			