

SAFETY DATA SHEET

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

Trade name: **Metabond Megalene Plus**

Version: 5 Latest revision: 15. 12. 2022 Previous version: 16. 07. 2018 Page: 1/(17)

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

1.1 Product identifier:

Metabond Megalene Plus

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

Relevant identified uses: ashless fuel additive for gasoline engines for professional use.

Uses advised against: application other than the above.

1.3 Details of the supplier of the safety data sheet:

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

Emergency telephone (on workdays: 08-16 h (CET)): +36 96 332738

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:
Flam. Liq. 3	H226 Flammable liquid and vapour.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Carc. 2	H351 Suspected of causing cancer
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

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2.2 Label elements

Product identification: Trade name: **Metabond Megalene Plus**

Hazardous components: Hydrocarbons, C10, aromatics, >1% naphthalene; Polyolefin alkyl phenol alkyl amine; 1,2,4-trimethylbenzene; Hydrocarbons, C9, aromatics

GHS Pictogram:



Signal word: **Danger**

Hazard statement:

- H226** Flammable liquid and vapour.
- H304** May be fatal if swallowed and enters airways.
- H315** Causes skin irritation.
- H319** Causes serious eye irritation.
- H336** May cause drowsiness or dizziness.
- H351** Suspected of causing cancer
- H411** Toxic to aquatic life with long lasting effects.

Supplemental hazard information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements – General: -

Precautionary statements – Prevention:

- P201** Obtain special instructions before use.
- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261** Avoid breathing vapours, spray.
- P273** Avoid release to the environment.
- P280** Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements – Response:

- P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313** IF exposed or concerned: Get medical advice/attention.
- P301 + P310 + P331** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Precautionary statements – Storage:

- P403 + P235** Store in a well-ventilated place. Keep cool.

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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.

SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: A mixture of mineral oil and additives.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Hydrocarbons, C10, aromatics, >1% naphthalene REACH Registr. Nr.: 01-2119463588-24	919-284-0	-	Carc. 2 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2	H351 H336 H304 H411 <i>EUH066</i>	max. 45
Polyolefin alkyl phenol alkyl amine REACH Registr. Nr.: no data	-	confidential	Skin Irrit. 2	H315	max. 25
Alkaryl polyether REACH Registr. Nr.: no data	-	confidential	Aquatic Chronic 3	H412	max. 25
1,2,4-trimethylbenzene REACH Registr. Nr.: no data	202-436-9	95-63-6	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2	H226 H332 H315 H319 H335 H304 H411	max. 10
Hydrocarbons, C9, aromatics REACH Registr. Nr.: no data	918-668-5	-	Flam. Liq. 3 STOT SE 3 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2	H226 H335 H336 H304 H411 <i>EUH066</i>	max. 10

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Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
4,4'-methylene bis (dibutyldithiocarbamate) REACH Registr. Nr.: 01-2119708416-41	233-593-1	10254-57-6	Aquatic Chronic 4	H413	max. 8.0
Naphthalene REACH Registr. Nr.: no data	202-049-5	91-20-3	Flam. Sol. 2 Acute Tox. 4 Carc. 2 Aquatic Acute 1 Aquatic Chronic 1	H228 H302 H351 H400 (M=1) H410 (M=1)	max. 5.0
Mesitylene REACH Registr. Nr.: no data	203-604-4	108-67-8	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2	H226 H315 H319 H335 H304 H411	max. 3.0
Diethylbenzene REACH Registr. Nr.: no data	246-874-9	25340-17-4	Flam. Liq. 3 Skin Irrit. 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 1	H226 H315 H304 H400 (M=1) H410 (M=1)	max. 2.5
2-ethylhexan-1-ol REACH Registr. Nr.: 01-2119487289-20	203-234-3	104-76-7	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	H332 H315 H319 H335	max. 2.0
Cumene* REACH Registr. Nr.: no data	202-704-5	98-82-8	Flam. Liq. 3 Carc. 2 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2	H226 H351 H335 H304 H411	max. 0.3

*: with exposure limit

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.

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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. If rapid recovery does not occur, obtain medical attention.

Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of a complaint, seek medical advice.

Ingestion: If swallowed, give 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

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of causing cancer

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Not required.

SECTION 5 Fire-fighting measures

Fire hazards:

Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

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, various hydrocarbons and soot can be formed.

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5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

Collect contaminated firefighting 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 spilled liquid with sand, earth or other suitable absorbents. Dispose of according to local regulations.

On water: Confine the spillage. Remove from surface by skimming or suitable absorbents. Notify local authorities according to regulations.

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.

Keep away from radiant heat and open flame.

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

Wash hands before breaks and at end of work.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: not known

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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: max. 40°C.

7.3 Specific end use(s)

Ashless fuel additive for gasoline engines for professional use.

SECTION 8 Exposure controls / personal protection

8.1 Control parameters:

Naphthalene (EU directive 91/322/EEC) 50 mg/m³, 10 ppm
CAS: 91-20-3

2-ethylhexan-1-ol TWA: (Europe, 10/2019). Long-term value: 5.4 mg/m³ (1 ppm)
CAS: 104-76-7 Short-term value: - mg/m³

Cumene Long-term value: 125 mg/m³ (25 ppm)
CAS: 98-82-8 Short-term value: 250 mg/m³ (50 ppm)

8.2 Exposure controls

Engineering control measures:

Not required.

Personal protection:

(a) Eye/face protection Protective goggles, if splashes may occur (EN 166).

(b) Skin protection

(i) Hand protection Oil resistant gloves (EN 374)
Material: nitrile, Breakthrough time: > 120 minutes
Note: Manufacturer's directions for use and the conditions of application should be observed.

(ii) Other Protective clothing (oil resistant).

(c) Respiratory protection Under normal conditions not required. In case of vapor formation respiratory protection with particle-filter is recommended.

(d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

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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:	amber
c) Odour:	mineral oil
d) Melting point/freezing point (Pour point):	not available
e) Boiling point or initial boiling point and boiling range:	not available
f) Flammability:	Flammable liquid and vapour.
g) Lower and upper explosion limit:	not explosive
h) Flash point:	60 - 65°C (estimated value)
i) Auto-ignition temperature:	not available
j) Decomposition temperature:	not available
k) pH:	not applicable
l) Kinematic viscosity	
	at 40°C: <20 mm ² /s (estimated value)
	at 100°C: not available
m) Solubility	
Solubility in water:	practically insoluble in water
Solubility in other solvents:	gasoline, kerosene, toluene, etc.
n) Partition coefficient n-octanol/water (log value):	not available
o) Vapour pressure at 20°C:	negligible
p) Density and/or relative density at 20°C:	ca. 0.9 g/cm ³
q) Relative vapour density:	not available
r) Particle characteristics:	not available

9.2 Other information
not available

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.
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.

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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.

Oral:	LD ₅₀ (rat)	> 2 000 mg/kg	(based on components)
Dermal:	LD ₅₀ (rabbit)	> 2 000 mg/kg	(based on components)

Components:

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

Oral:	LD ₅₀ (rat)	16 000 mg/kg
Dermal:	LD ₅₀ (rabbit)	> 2 000 mg/kg

Hydrocarbons, C10, aromatics, >1% naphthalene (EC: 919-284-0)

Oral:	LD ₅₀ (rat)	6 318 mg/kg	OECD 401
Dermal:	LD ₅₀ (rabbit)	> 2 000 mg/kg	OECD 402
Inhalation (dust, fog):	LC ₅₀ (rat)	> 4 778 mg/L/4 h	OECD 403
Inhalation (vapour):	LC ₅₀ (rat)	> 4 688 mg/L/4 h	OECD 403

Polyolefin alkyl phenol alkyl amine (CAS: -)

Oral:	LD ₅₀ (rat)	> 5 000 mg/kg
Dermal:	LD ₅₀ (rat)	> 2 000 mg/kg

Alkaryl polyether (CAS: -)

Oral:	LD ₅₀ (rat)	> 2 000 mg/kg	OECD 423
Dermal:	LD ₅₀ (rabbit)	> 3 000 mg/kg	OECD 423

1,2,4-trimethylbenzene (CAS: 95-63-6)

Oral:	LD ₅₀ (rat)	6 000 mg/kg	OECD 401
Dermal:	LD ₅₀ (rat)	> 3 440 mg/kg	OECD 402
Inhalation (vapour):	LC ₅₀ (rat)	> 10 200 mg/L/4 h	OECD 403

Hydrocarbons, C9, aromatics (EC: 918-668-5)

Oral:	LD ₅₀ (rat)	> 5 000 mg/kg	OECD 401
Dermal:	LD ₅₀ (rabbit)	> 2 000 mg/kg	OECD 402
Inhalation (vapour):	LC ₅₀ (rat)	> 5.6 mg/L/4 h	OECD 403

Naphthalene (CAS: 91-20-3)

Oral:	LD ₅₀ (mouse)	533 mg/kg	OECD 401
Dermal:	LD ₅₀ (rat)	> 16 000 mg/kg	OECD 402
Inhalation (vapour):	LC ₅₀ (rat)	> 0.4 mg/L/4 h	OECD 403

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Mesitylene (CAS: 108-67-8)

Oral:	LD ₅₀ (rat)	> 5 000 mg/kg
Dermal:	LD ₅₀ (rat)	> 3 440 mg/kg
Inhalation (vapour):	LC ₅₀ (rat)	> 10.2 mg/L/4 h

Diethylbenzene (CAS: 25340-17-4)

Oral:	LD ₅₀ (rat)	2 050 mg/kg
Dermal:	LD ₅₀ (rabbit)	> 5 000 mg/kg

2-ethylhexan-1-ol (CAS: 104-76-7)

Oral:	LD ₅₀ (rat)	2 040 mg/kg	OECD 401
Dermal:	LD ₅₀ (rat)	1 970 mg/kg	
Inhalation (vapour):	LC ₅₀ (rat)	> 0.89 mg/L/4 h	
Inhalation (dust, fog):	LC ₅₀ (rat)	1 – 5.3 mg/L/4 h	OECD 403

Cumene (CAS: 98-82-8)

Oral:	LD ₅₀ (rat)	2 040 mg/kg	OECD 401
Dermal:	LD ₅₀ (rat)	1 970 mg/kg	

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye 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:	Suspected of causing cancer
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	May cause drowsiness or dizziness.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	May be fatal if swallowed and enters airways.

11.2 Information on other hazards

No data available.

SECTION 12 Ecological information

12.1 Toxicity Toxic to aquatic life with long lasting effects.

Components:

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

Algae:	EC ₅₀	> 0.0325 mg/l	72 h
Daphnia:	EC ₅₀	> 0.052 mg/l	48 h
Microorganisms:	EC ₅₀	> 1 000 mg/l	3 h
Fish:	LC ₅₀	> 0.06 mg/l	96 h

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Algae:	NOEC	0.0325 mg/l	72 h
Daphnia:	NOEC	0.052 mg/l	48 h

Hydrocarbons, C10, aromatics, >1% naphthalene (EC: 919-284-0)

Fish (Oncorhynchus mykiss):	LL ₅₀	2 - 5 mg/l	96 h
Daphnia magna:	EL ₅₀	1.4 mg/l	48 h
Daphnia magna:	NOEL	0.48 mg/l	21 days
Algae (Pseudokirchneriella subcapitata):	EL ₅₀	> 1 mg/l	72 h
Algae (Pseudokirchneriella subcapitata):	NOEL	1 mg/l	72 h

Polyolefin alkyl phenol alkyl amine (CAS: -)

Algae:	EC ₅₀	5.4 mg/l	96 h
Algae:	NOEC	3.65 mg/l	96 h
Daphnia:	NOEC	3.38 mg/l	21 days

1,2,4-trimethylbenzene (CAS: 95-63-6)

Fish (Pimephales promelas):	LL ₅₀	7.72 mg/l	96 h
Daphnia magna:	EL ₅₀	3.6 mg/l	48 h

Hydrocarbons, C9, aromatics (EC: 918-668-5)

Fish (Pimephales promelas):	LL ₅₀	8.2 mg/l	96 h
Fish (Pimephales promelas):	NOEL	2.6 mg/l	14 days
Daphnia magna:	EL ₅₀	4.5 mg/l	48 h
Daphnia magna:	NOEC	0.4 mg/l	21 days
Algae (Pseudokirchneriella subcapitata):	EL ₅₀	3.1 mg/l	72 h
Algae (Pseudokirchneriella subcapitata):	NOEL	0.5 mg/l	72 h

Naphthalene (CAS: 91-20-3)

Fish (Oncorhynchus gorbuscha):	LC ₅₀	0.96 mg/l	96 h
Fish (Oncorhynchus gorbuscha):	NOEC	0.12 mg/l	40 days
Daphnia magna:	EC ₅₀	2.16 mg/l	48 h
Daphnia pulex:	NOEC	0.59 mg/l	125 days
Algae (Pseudokirchneriella subcapitata):	EC ₅₀	2.96 mg/l	96 h

Mesitylene (CAS: 108-67-8)

Fish (Carassius auratus):	LL ₅₀	12.52 mg/l	96 h
Daphnia magna:	LL ₅₀	6 mg/l	48 h
Daphnia magna:	NOEC	0.4 mg/l	21 days

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Algae (Desmodesmus subspicatus):	EL ₅₀	53 mg/l	48 h
Algae (Desmodesmus subspicatus):	EL ₁₀	16 mg/l	48 h

Diethylbenzene (CAS: 25340-17-4)

Fish (Oncorhynchus mykiss):	LC ₅₀	0.673 mg/l	96 h
Daphnia magna:	EC ₅₀	2.01 mg/l	48 h
Algae (Pseudokirchneriella subcapitata):	EC ₅₀	1.21 mg/l	96 h
Algae (Pseudokirchneriella subcapitata):	NOEC	0.547 mg/l	72 h
Microorganisms:	NOEC	> 1 000 mg/l	3 h

2-ethylhexan-1-ol (CAS: 104-76-7)

Fish (Leuciscus idus melanotus):	LC ₅₀	17.1 mg/l	96 h
Daphnia magna:	EC ₅₀	39 mg/l	48 h
Algae (Desmodesmus subspicatus):	EL ₅₀	16.6 mg/l	72 h
Algae (Desmodesmus subspicatus):	EL ₁₀	5.3 mg/l	72 h

Cumene (CAS: 98-82-8)

Fish (Oncorhynchus mykiss):	LC ₅₀	4.8 mg/l	96 h
Fish (D. rerio and P. promelas):	NOEC	0.38 mg/l	28 days (QSAR)
Daphnia magna:	EC ₅₀	2.14 mg/l	48 h
Daphnia magna:	NOEC	0.35 mg/l	21 days (QSAR)
Algae (Desmodesmus subspicatus):	EC ₅₀	2.01 mg/l	72 h
Algae (Desmodesmus subspicatus):	EC ₁₀	1.35 mg/l	72 h
Microorganisms:	EL ₅₀	> 2 000 mg/l	3 h

12.2 Persistence and degradability

Biodegradability:	Hydrocarbons are inherently degradable.
<i>4,4'-methylene bis(dibutylthiocarbamate) (CAS: 10254-57-6)</i>	21% (28 days, OECD 301 B)
<i>Hydrocarbons, C10, aromatics, >1% naphthalene (EC: 919-284-0)</i>	58.6% (28 days, OECD 301 F)
<i>Polyolefin alkyl phenol alkyl amine (CAS: -)</i>	4% (28 days, OECD 301 D); Not easily degradable.
<i>Naphthalene (CAS: 91-20-3)</i>	0 - 2% (28 days, OECD 301 D) Not easily degradable.
<i>Mesitylene (CAS: 108-67-8)</i>	42% (28 days) Not easily degradable.
<i>Diethylbenzene (CAS: 25340-17-4)</i>	4.7% (28 days, OECD 301 B) Not easily degradable.

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	<i>2-ethylhexan-1-ol (CAS: 104-76-7)</i>	100% (14 days, OECD 301 C) Easily degradable.
	<i>Cumene (CAS: 98-82-8)</i>	70% (20 days) Easily degradable.
12.3	Bioaccumulative potential	No data available.
	<i>4,4'-methylene bis (dibutyldithiocarbamate) (CAS: 10254-57-6)</i>	Log Pow: 8.42 BCF: 10.86 (low potential)
	<i>Hydrocarbons, C10, aromatics, >1% naphthalene (EC: 919-284-0)</i>	Log Pow: 2.8 – 6.5 BCF: 99 – 5780 (low potential)
	<i>1,2,4-trimethylbenzene (CAS: 95-63-6)</i>	Log Pow: 3.63 BCF: 243 (low potential)
	<i>Hydrocarbons, C9, aromatics (EC: 918-668-5)</i>	BCF: 10 – 2500 (low potential)
	<i>Naphthalene (CAS: 91-20-3)</i>	Log Pow: 3.4 BCF: 36.5 – 168 (low potential)
	<i>Mesitylene (CAS: 108-67-8)</i>	Log Pow: 3.42 BCF: 161 (low potential)
	<i>Diethylbenzene (CAS: 25340-17-4)</i>	BCF: 320 – 629 (low potential)
	<i>2-ethylhexan-1-ol (CAS: 104-76-7)</i>	Log Pow: 2.9 BCF: 25.33 (low potential)
	<i>Cumene (CAS: 98-82-8)</i>	Log Pow: 3.55 BCF: 35.48 (low potential)
12.4	Mobility in soil	Absorbs in soil.
	Mobility in water:	Floats on water.
12.5	Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances.
12.6	Endocrine disrupting properties	No data.
12.7	Other adverse effects	
	Heavy metal content:	None.
	PCT, PCB and other chlorinated hydrocarbons:	None.
	Environmental effects:	Large spills may be hazardous to the environment.
	Water hazard class (German):	WGK 1 (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.

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Waste Identification Code: 13 02 05*

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

Waste Identification Code: 13 07 03*

Other fuels (including mixtures)

Recommended waste treatment method: incineration

Disposal must be in compliance with national and local regulations.

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:

14.1 UN number or ID number:	UN1933
14.2 UN proper shipping name:	Flammable Liquid N.O.S. (Contains: Naphthalene, trimethylbenzene)
14.3 Transport hazard class(es):	3
14.4 Packing group:	III
14.5 Environmental hazards:	dangerous for the environment
Marine pollutant:	yes
14.6 Special precautions for user:	
Special Provisions:	274, 601, 640H
Tunnel restriction code:	D/E
Label:	3
Limited quantity:	5 L
EMS Number:	F-E, S-E

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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: P5.c; E2.
- 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.

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

Flam. Liq. 3	H226	calculated method
Asp. Tox. 1	H304	calculated method
Skin Irrit. 2	H315	calculated method
Eye Irrit. 2	H319	calculated method
STOT SE 3	H336	calculated method
Carc. 2	H351	calculated method
Aquatic Chronic 2	H411	calculated method

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Flam. Liq. 3	Flammable liquid Category 3
Flam. Sol. 2	Flammable solid Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Acute Tox. 4	Acute toxicity Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Carc. 2	Carcinogenicity Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, Chronic Category 4

Legend:

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
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report

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DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ec _x	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Ed _x	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
LC _x	Lethal Concentration x%
LD _x	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

Revision Indicators:

Section	Subject of change	Date	Version
1-16	Revision modification according to 2020/878/EU Full revision due to composition change	15. 12. 2022	5