

# SAFETY DATA SHEET

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

Trade name: **METABOND MEGASEL diesel additive**

Version: 5.1

Date of revision: 07. 05. 2025

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

### 1.1. Product identifier:

**METABOND MEGASEL diesel additive**

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

Relevant identified uses: ashless fuel additive of diesel fuel. For residential use.

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 út 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)

National Health Toxicological Information Service:

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Hazard Class and Category:	Hazard statement:	
Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H312	Harmful in contact with skin.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Eye Irrit. 2	H319	Causes serious eye irritation.
Acute Tox. 4	H332	Harmful if inhaled.
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 MEGASEL diesel additive**

Hazardous components: 2-ethylhexyl nitrate; 2-ethylhexan-1-ol; Amines, polyethylenepoly-, tetraethylenepentamine fraction; Amides, C18-unsatd., N-[3-(dimethylamine)propyl]

GHS Pictogram:



Signal word:

**Warning**

Hazard statement:

- H302** Harmful if swallowed.
- H312** Harmful in contact with skin.
- H315** Causes skin irritation.
- H317** May cause an allergic skin reaction.
- H319** Causes serious eye irritation.
- H332** Harmful if inhaled.
- H411** Toxic to aquatic life with long lasting effects.

Supplemental hazard information:

- EUH044** Risk of explosion if heated under confinement.
- EUH066** Repeated exposure may cause skin dryness or cracking.

Precautionary statements – General:

- P101** If medical advice is needed, have product container or label at hand.
- P102** Keep out of the reach of children.

Precautionary statements – Prevention:

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261** Avoid breathing vapours.
- P271** Use only outdoors or in a well-ventilated area.
- P273** Avoid release to the environment.
- P280** Wear protective gloves, protective clothing, eye protection/face protection.

Precautionary statements – Response:

- P301 + P330 + P331** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P302 + P352** IF ON SKIN: Wash with plenty of water and soap.

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**P304 + P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P333 + P313** If skin irritation or rash occurs: Get medical advice/attention.

**P391** Collect spillage.

Precautionary statements – Storage:

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

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: High refining grade mineral oil, with additives.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
2-ethylhexyl nitrate REACH Registr. Nr.: 01-2119539586-27	248-363-6	27247-96-7	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Aquatic Chronic 2	H302 H312 H332 H411 <i>EUH044</i> <i>EUH066</i>	70-85
2-ethylhexan-1-ol REACH Registr. Nr.: 01-2119487289-20	203-234-3	104-76-7	Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 4 STOT SE 3	H315 H319 H332 H335	8-15
4,4'-methylene bis (dibutyldithiocarbamate) REACH Registr. Nr.: 01-2119969655-20	233-593-1	10254-57-6	Aquatic Chronic 4	H413	max. 5.0

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Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts REACH Registr. Nr.: 01-2120765005-60	947-523-9	-	Skin Irrit. 2 Eye Irrit. 2 Aquatic Acute 1	H315 H319 H400 (M=1)	<3.0
Methyl-1H-benzotriazole REACH Registr. Nr.: 01-2119979081-35	249-596-6	29385-43-1	Acute Tox. 4 Repr. 2 Aquatic Chronic 2	H302 H361d H411	<3.0
Amides, C18-unsatd., N-[3-(dimethylamino)propyl] REACH Registr. Nr.: no data	800-353-8	-	Skin Corr. 1B Eye Dam. 1 Skin Sens. 1A Aquatic Acute 1 Aquatic Chronic 1	H314 H318 H317 H400 (M=1) H410 (M=1)	<0.3
Hydrocarbons, C10, aromatics, >1% naphthalene REACH Registr. Nr.: 01-2119463588-24	919-284-0	-	Asp. Tox. 1 STOT SE 3 Carc. 2 Aquatic Chronic 2	H304 H336 H351 H411 <i>EUH066</i>	<0.3
Amines, polyethylenepoly-, tetraethylenepentamine fraction REACH Registr. Nr.: no data	292-587-7	-	Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Skin Sens. 1B Aquatic Chronic 2	H302 H312 H314 H318 H317 H411	<0.3
Octamethylcyclotetrasiloxane REACH Registr. Nr.: 01-2119529238-36 SVHC Candidate List Substance	209-136-7	556-67-2	Flam. Liq. 3 Repr. 2 Aquatic Chronic 4	H226 H361f H413	<0.1

\*: with exposure limit

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.

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- Inhalation: Remove the affected person to fresh air. Call a doctor if you have breathing problems or other complaints. If not breathing, give artificial respiration.
- 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 unless directed to do so by a doctor. If vomiting occurs spontaneously, lower head below waist to prevent fluid entering the lungs. Get medical attention.

Protection of first-aid person: No individual specifications. It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation.

- 4.2. Most important symptoms and effects, both acute and delayed  
Harmful if swallowed, in contact with skin and if inhaled.  
Causes skin irritation. Causes serious eye irritation.  
May cause an allergic skin 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.

Above 100°C, a self-accelerating, exothermic reaction may occur, resulting in a rapid rise in temperature and pressure, and the container may burst.

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## 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.

### Further information:

Containers exposed to fire should be removed from the endangered area if this is possible without danger. Use water spray to cool container.

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.

All kind of ignition sources should be removed. Do not smoke.

Sufficient ventilation should be provided.

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. Sufficient ventilation should be provided. 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.

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All kind of ignition sources should be removed. Do not smoke.  
Sufficient ventilation should be provided.  
Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.  
Do not heat the product.  
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.

## 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)

Ashless fuel additive of diesel fuel.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters:

2-ethylhexan-1-ol TWA: (Europe, 10/2019). Long-term value: 5,4 mg/m<sup>3</sup> (1 ppm)  
CAS: 104-76-7 Short-term value: - mg/m<sup>3</sup>

### 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), (nitrile, layer thickness: 0.4 mm).  
Note: Manufacturer's directions for use and the conditions of application should be observed.
- (ii) Other Protective clothing (long-sleeved T-shirt, 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).

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(d) Thermal hazards      No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

## SECTION 9: Physical and chemical properties

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

a) Physical state:	liquid
b) Colour:	amber
c) Odour:	characteristic
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:	min. 61°C
i) Auto-ignition temperature:	not available
j) Decomposition temperature:	not available
k) pH:	not applicable
l) Kinematic viscosity at:	
40°C:	not available
100°C:	not available
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:	0.85-1.00 g/ml
q) Relative vapour density:	not available
r) Particle characteristics:	not available

### 9.2. Other information

no data available

## SECTION 10: Stability and reactivity

10.1. Reactivity:

Dangerous reactivity not known.

10.2. Chemical stability:

No decomposition if stored and handled properly.

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- 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.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Components:

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

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

*2-ethylhexyl nitrate (CAS: 27247-96-7):*

Oral:	LD <sub>50</sub> (rat)	> 9 600 mg/kg	
Dermal:	LD <sub>50</sub> (rabbit)	> 4 800 mg/kg	
Inhalation:	LC <sub>50</sub> (rat)	> 4.6 mg/l	1 h

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

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

*1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts (EC: 947-523-9):*

Oral:	LD <sub>50</sub> (rat)	> 2 000 mg/kg	(OECD 423)
Dermal:	LD <sub>50</sub> (rabbit)	> 2 000 mg/kg	(OECD 402)

*Methyl-1H-benzotriazole (CAS: 29385-43-1):*

Oral:	LD <sub>50</sub> (rat)	720 mg/kg	(OECD 401)
Dermal:	LD <sub>50</sub> (rabbit)	> 2 000 mg/kg	(OECD 402)
Inhalation:	LC <sub>50</sub> (rat)	> 1 730 mg/l	1 h

*Amides, C18-unsatd., N-[3-(dimethylamine)propyl] (EC: 800-353-8):*

Oral:	LD <sub>50</sub> (rat)	> 2 000 mg/kg	(OECD 423)
Dermal:	LD <sub>50</sub> (rat)	> 2 000 mg/kg	(OECD 402)

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

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

## *Amines, polyethylenepoly-, tetraethylenepentamine fraction (EC: 292-587-7):*

Oral:	LD <sub>50</sub> (rat)	1 716 mg/kg
Dermal:	LD <sub>50</sub> (rabbit)	1 260 mg/kg

## *Octamethylcyclotetrasiloxane (CAS: 556-67-2):*

Oral:	LD <sub>50</sub> (rat)	> 4 800 mg/kg	(OECD 401)
Dermal:	LD <sub>50</sub> (rat)	> 2 375 mg/kg	(OECD 402)
Inhalation (vapour):	LC <sub>50</sub> (rat)	36 mg/l	4 h (OECD 403)

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
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

Toxic to aquatic life with long lasting effects.

#### Components:

##### *2-ethylhexyl nitrate (CAS: 27247-96-7):*

Fish (Danio rerio):	LC <sub>50</sub>	2 mg/l	96 h
Daphnia (Daphnia magna):	EC <sub>50</sub>	0.83 mg/l	48 h
Algae (Pseudokirchneriella subcapitata):	EC <sub>50</sub>	> 100 mg/l	72 h
Algae (Pseudokirchneriella subcapitata):	EC <sub>10</sub>	2.22 mg/l	72 h
Microorganisms:	EL <sub>50</sub>	>1 000 mg/l	3 h

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

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

## *1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts (EC: 947-523-9):*

Fish ( <i>Oncorhynchus mykiss</i> ):	LC <sub>50</sub>	0.406 mg/l	96 h
Daphnia ( <i>Daphnia magna</i> ):	EC <sub>50</sub>	33.6 mg/l	48 h
Algae ( <i>Pseudokirchneriella subcapitata</i> ):	EC <sub>50</sub>	85.4 mg/l	72 h
Algae ( <i>Pseudokirchneriella subcapitata</i> ):	NOEC	42.9 mg/l	72 h
Microorganisms:	EL <sub>50</sub>	>100 mg/l	3 h

## *Methyl-1H-benzotriazole (CAS: 29385-43-1):*

Fish ( <i>Danio rerio</i> ):	LL <sub>50</sub>	180 mg/l	96 h
Daphnia ( <i>Daphnia galeata</i> ):	EL <sub>50</sub>	8.58 mg/l	48 h
Daphnia ( <i>Daphnia galeata</i> ):	EL <sub>10</sub>	0.4 mg/l	21 days
Algae ( <i>Pseudokirchneriella subcapitata</i> ):	EL <sub>50</sub>	75 mg/l	72 h
Algae ( <i>Desmodesmus subspicatus</i> ):	EL <sub>10</sub>	1.18 mg/l	72 h
Microorganisms:	EL <sub>50</sub>	1 060 mg/l	24 h

## *Amides, C18-unsatd., N-[3-(dimethylamine)propyl] (EC: 800-353-8):*

Fish ( <i>Danio rerio</i> ):	LL <sub>50</sub>	0.22 mg/l	96 h
Daphnia ( <i>Daphnia magna</i> ):	EL <sub>50</sub>	0.28 mg/l	48 h
Daphnia ( <i>Daphnia magna</i> ):	EL <sub>10</sub>	0.07 mg/l	21 days
Algae ( <i>Pseudokirchneriella subcapitata</i> ):	EC <sub>50</sub>	> 0.96 mg/l	72 h
Algae ( <i>Pseudokirchneriella subcapitata</i> ):	EC <sub>10</sub>	0.32 mg/l	72 h
Microorganisms:	EL <sub>50</sub>	480 mg/l	3 h

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

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

## *Amines, polyethylenepoly-, tetraethylenepentamine fraction (EC: 292-587-7):*

Fish ( <i>Pimephales promelas</i> ):	LC <sub>50</sub>	310 mg/l	96 h
Daphnia ( <i>Daphnia magna</i> ):	LC <sub>50</sub>	14.6 mg/l	48 h

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Algae ( <i>Selenastrum capricornutum</i> ):	EC <sub>50</sub>	6.8 mg/l	72 h
Algae ( <i>Selenastrum capricornutum</i> ):	NOEC	0.5 mg/l	72 h
Microorganisms:	EC <sub>50</sub>	1 600 mg/l	1 h

#### *Octamethylcyclotetrasiloxane (CAS: 556-67-2):*

Fish ( <i>Oncorhynchus mykiss</i> ):	LC <sub>50</sub>	> 0.022 mg/l	96 h
Fish ( <i>Oncorhynchus mykiss</i> ):	NOEC	≥ 0.0044 mg/l	93 days
Daphnia ( <i>Daphnia magna</i> ):	EC <sub>50</sub>	> 0.015 mg/l	48 h
Daphnia ( <i>Daphnia magna</i> ):	NOEC	0.0079 mg/l	21 days
Algae ( <i>Pseudokirchneriella subcapitata</i> ):	EC <sub>50</sub>	> 0.022 mg/l	96 h
Algae:	NOEC	<0.022 mg/l	96 h
Microorganisms:	EL <sub>50</sub>	> 10 000 mg/l	3 h

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

Algae:	EC <sub>50</sub>	> 0.0325 mg/l	72 h
Acute (Daphnia):	EC <sub>50</sub>	> 0.052 mg/l	48 h
Acute (Microorganisms):	EC <sub>50</sub>	> 1 000 mg/l	3 h
Acute (Fish):	LC <sub>50</sub>	> 0.06 mg/l	96 h
Acute (Algae):	NOEC	0.0325 mg/l	72 h
Acute (Daphnia):	NOEC	0.052 mg/l	48 h
Acute (Fish):	NOEC	0.06 mg/l	96 h
Acute (Microorganisms):	NOEC	1 000 mg/l	3 h
Chronic (Daphnia):	NOEC	0.247 mg/l	21 days

## 12.2. Persistence and degradability

Biodegradability:

No data for the product.

*4,4'-methylene bis (dibutyldithiocarbamate)* (CAS: 10254-57-6): 21% (28 days, OECD 301 B)  
Not easily degradable.

*2-ethylhexyl nitrate (CAS: 27247-96-7):* 0% (28 days, OECD 301)  
Not easily degradable.

*2-ethylhexan-1-ol (CAS: 104-76-7):* 100% (14 days, OECD 301 C)  
Easily degradable.

*1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts (EC: 947-523-9):* 77% (29 days, OECD 301 C)  
Easily degradable.

*Methyl-1H-benzotriazole (CAS: 29385-43-1):* 4% (28 days, OECD 301 F)  
Not easily degradable.

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<i>Amides, C18-unsatd., N-[3-(dimethylamine)propyl] (EC: 800-353-8):</i>	91% (28 days, OECD 301 B) Easily degradable.
<i>Hydrocarbons, C10, aromatics, &gt;1% naphthalene (EC: 919-284-0):</i>	58.6% (28 days, OECD 301 F) Not easily degradable.
<i>Amines, polyethylenepoly-, tetraethylenepentamine fraction (EC: 292-587-7):</i>	0% (28 days, OECD 301 D) Not easily degradable.
<i>Octamethylcyclotetrasiloxane (CAS: 556-67-2):</i>	3.7% (29 days, OECD 301) Not easily degradable.
12.3. Bioaccumulative potential	No data for the product.
<i>4,4'-methylene bis (dibutyldithiocarbamate) (CAS: 10254-57-6):</i>	Log Pow: 8.42 BCF: 10.86 (low potential)
<i>2-ethylhexyl nitrate (CAS: 27247-96-7):</i>	Log Pow: 5.24 BCF: 1196 (high potential)
<i>2-ethylhexan-1-ol (CAS: 104-76-7):</i>	Log Pow: 2.9 BCF: 25.33 (low potential)
<i>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts (EC: 947-523-9):</i>	Log Pow: 0.8 (low potential)
<i>Methyl-1H-benzotriazole (CAS: 29385-43-1):</i>	Log Pow: 1.081 (low potential)
<i>Amides, C18-unsatd., N-[3-(dimethylamine)propyl] (EC: 800-353-8):</i>	Log Pow: 1.842 (low potential)
<i>Hydrocarbons, C10, aromatics, &gt;1% naphthalene (EC: 919-284-0):</i>	Log Pow: 2.8 – 6.5 BCF: 99 - 5780 (high potential)
<i>Octamethylcyclotetrasiloxane (CAS: 556-67-2):</i>	Log Pow: 6.488 BCF: 13 400 (high potential)
12.4. Mobility in soil	No data.
Mobility in water:	Insoluble in water.
12.5. Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances. Octamethylcyclotetrasiloxane (CAS: 556-67-2) is currently in "under evaluation" status.
12.6. Endocrine disrupting properties	No data.

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## 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 07 03\*

other fuels (including mixtures)

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:

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY  
HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
(contains 2-ethylhexyl nitrate)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

14.5. Environmental hazards:

dangerous for the environment

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Marine pollutant:	yes
14.6. Special precautions for user:	
Limited and excepted quantities	5 L / E1
Kemler Number:	90

## 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: 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)

Acute Tox. 4	<b>H302</b>	calculated method
Acute Tox. 4	<b>H312</b>	calculated method
Skin Irrit. 2	<b>H315</b>	calculated method
Skin Sens. 1	<b>H317</b>	calculated method
Eye Irrit. 2	<b>H319</b>	calculated method
Acute Tox. 4	<b>H332</b>	calculated method
Aquatic Chronic 2	<b>H411</b>	calculated method

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

H226                      Flammable liquid and vapour.

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H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
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.
Flam. Liq. 3	Flammable liquid Category 3
Acute Tox. 4	Acute toxicity Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Acute Tox. 4	Acute Tox. 4
Skin Corr. 1B	Skin Corr. 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1A, 1B	Respiratory/skin sensitization Category 1A, 1B
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Acute Tox. 4	Acute toxicity Category 4
STOT SE 3	Specific target organ toxicity — single exposure Category 3
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Carc. 2	Carcinogenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Repr. 2	Reproductive toxicity Category 2
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 4	Hazardous to the aquatic environment, Chronic Category 4

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## 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 (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

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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	Full revision due to composition change Revision modification according to 2020/878/EU	06. 05. 2022	5
14	Transport information.	07. 05. 2025	5.1