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

1.1 Product identifier

Trade name: Eni Premium-Wirkstoff fiamma

UFI: FFD0-J0W5-200N-R3N8

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

General use: Additive for petrolium products

1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH
Street/POB-No.: Paradiesstraße 14
Postal Code, city: 97080 Würzburg
Germany
E-mail: info.wuerzburg@enilive.com
Telephone: +49 (0)931-90098-0
Telefax: +49 (0)931-98442

Department responsible for information:
Application Engineering & Product Management (AEPM)
Telephone: +49 (0)931-90098-0
E-mail: technik.wuerzburg@enilive.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen
Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315	Causes skin irritation.
Eye Dam. 1; H318	Causes serious eye damage.
Skin Sens. 1; H317	May cause an allergic skin reaction.
Repr. 1B; H360FD	May damage fertility. May damage the unborn child.
Asp. Tox. 1; H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)

Signal word: **Danger**

Hazard statements:

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360FD	May damage fertility. May damage the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P391	Collect spillage.

Special labelling

Text for labelling:

Contains:
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%),
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%),
α,α'-propylenedinitrilodi-o-cresol,
N,N-bis(2-Ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine,
Linalool,
3,6,9-Triazaundecamethylenediamine
Restricted to professional users.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation:

Hydrocarbon mixture

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119458869-15-xxxx list no. 925-653-7 CAS 64742-81-0	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Asp. Tox. 1; H304. Aquatic Chronic 3; H412. (EUH066).	25 - 50 %
REACH 01-2119448343-41-xxxx list no. 920-360-0	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%) Asp. Tox. 1; H304. (EUH066).	25 - 50 %
REACH 01-2119457274-37-xxxx EC No. 242-362-4 CAS 18479-58-8	2,6-dimethyloct-7-en-2-ol Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H336.	< 10 %
list no. 918-811-1	Hydrocarbons, C10, aromatics, <1% naphthalene STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	< 10 %
REACH 01-2119490822-33-xxxx EC No. 204-884-0 CAS 128-39-2	2,6-di-tert-butylphenol Skin Irrit. 2; H315. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	< 5 %
EC No. 202-980-7 CAS 101-83-7	Dicyclohexylamine Acute Tox. 3; H301. Acute Tox. 3; H311. Skin Corr. 1B; H314. Eye Dam. 1; H318. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	< 2,5 %
REACH 01-2119958970-25-xxxx EC No. 202-374-2 CAS 94-91-7	α,α'-propylenedinitrilodi-o-cresol Acute Tox. 4; H302. Skin Sens. 1; H317. Repr. 1B; H360FD. Aquatic Chronic 3; H412.	< 2,5 %
REACH 01-2119930450-49-xxxx EC No. 401-280-0 CAS 91273-04-0	N,N-bis(2-Ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Chronic 2; H411.	< 2,5 %
EC No. 202-049-5 CAS 91-20-3	Naphthalene Acute Tox. 4; H302. Carc. 2; H351. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 1 %
EC No. 201-134-4 CAS 78-70-6	Linalool Skin Sens. 1B; H317.	< 0,5 %
EC No. 246-874-9 CAS 25340-17-4	Diethylbenzene Flam. Liq. 3; H226. Skin Irrit. 2; H315. Asp. Tox. 1; H304. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	< 0,5 %
EC No. 203-986-2 CAS 112-57-2	3,6,9-Triazaundecamethylenediamine Acute Tox. 4; H302. Acute Tox. 4; H312. Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Chronic 2; H411.	< 0,5 %

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.
Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Caution if victim vomits: Risk of aspiration! Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction.
Causes serious eye damage.
May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Aspiration hazard: Subsequent observance for pneumonia and lung oedema.
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Water spray jet, foam, powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:
Full water jet

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters:
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Use fine water spray to cool endangered containers.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure. Do not breathe mist/vapours/spray. Avoid contact with the substance.
If possible, eliminate leakage. Provide adequate ventilation.
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
If necessary, notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:
Keep away from heat.
When handling larger quantities, take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position.
Recommended storage temperature: < 50 °C

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.
Do not store together with: acids, alkalis, oxidizing agents.

Storage class: 6.1C = Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64742-81-0	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Germany: TRGS 900 Kurzzeit	100 mg/m³ (hydrocarbons, aromatic, C9-C14)
		Germany: TRGS 900 Langzeit	50 mg/m³ (hydrocarbons, aromatic, C9-C14)
-	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30%)	Germany: TRGS 900 Kurzzeit	100 mg/m³ (hydrocarbons, aromatic, C9-C14)
		Germany: TRGS 900 Langzeit	50 mg/m³ (hydrocarbons, aromatic, C9-C14)
list no. 918-811-1	Hydrocarbons, C10, aromatics, <1% naphthalene	Germany: TRGS 900 Kurzzeit	100 mg/m³ (hydrocarbons, aromatic, C9-C14)
		Germany: TRGS 900 Langzeit	50 mg/m³ (hydrocarbons, aromatic, C9-C14)
101-83-7	Dicyclohexylamine	Germany: TRGS 900 Kurzzeit	10 mg/m³; 1,4 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	5 mg/m³; 0,7 ppm (Aerosol and vapour, may be absorbed through the skin)
91-20-3	Naphthalene	Europe: IOELV: TWA	50 mg/m³; 10 ppm
		Germany: TRGS 900 Kurzzeit	8 mg/m³; 1,6 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	2 mg/m³; 0,4 ppm (Aerosol and vapour, may be absorbed through the skin)
25340-17-4	Diethylbenzene	Germany: TRGS 900 Kurzzeit	22 mg/m³; 4 ppm (may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	11 mg/m³; 2 ppm (may be absorbed through the skin)

DNEL/DMEL:

Information about 2,6-dimethyloct-7-en-2-ol (CAS 18479-58-8):
DNEL workers, inhalative, long-term, systemic: 73,5 mg/m³
DNEL workers, dermal, long-term, systemic: 20,8 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 21,7 mg/m³
DNEL consumers, dermal, long-term, systemic: 12,5 mg/kg bw/d
DNEL consumers, oral, long-term, systemic: 12,5 mg/kg bw/d

Information about 2,6-di-tert-butylphenol (CAS 128-39-2):
DNEL workers, inhalative, long-term, systemic: 11,25 mg/m³
DNEL workers, dermal, long-term, systemic: 70,61 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 20,9 mg/m³
DNEL consumers, oral, long-term, systemic: 6,75 mg/kg bw/d

Information about Dicyclohexylamine (CAS 101-83-7):
DNEL workers, inhalative, long-term, systemic: 0,353 mg/m³
DNEL workers, dermal, long-term, systemic: 0,1 mg/kg bw/d

Information about α,α'-propylenedinitrilodi-o-cresol (CAS 94-91-7):
DNEL workers, inhalative, long-term, systemic: 3,11 mg/m³
DNEL workers, dermal, long-term, systemic: 0,8 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 0,76 mg/m³
DNEL consumers, dermal, long-term, systemic: 0,44 mg/kg bw/d
DNEL consumers, oral, long-term, systemic: 0,22 mg/kg bw/d

Information about N,N-bis(2-Ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine (CAS 91273-04-0):
DNEL workers, inhalative, long-term, systemic: 1,76 mg/m³
DNEL workers, dermal, long-term, systemic: 0,5 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 0,43 mg/m³
DNEL consumers, dermal, long-term, systemic: 0,25 mg/kg bw/d
DNEL consumers, oral, long-term, systemic: 0,25 mg/kg bw/d

PNEC:

Information about 2,6-dimethyloct-7-en-2-ol (CAS 18479-58-8):
PNEC water (freshwater): 0,0278 mg/L
PNEC water (marine water): 0,00278 mg/L
PNEC water (intermittent release): 0,278 mg/L
PNEC sediment (freshwater): 0,594 mg/kg
PNEC sediment (marine water): 0,059 mg/kg
PNEC sewage treatment plant: 10 g/L
PNEC soil: 0,103 mg/kg
PNEC Secondary poisoning: 111 mg/kg Food

Information about 2,6-di-tert-butylphenol (CAS 128-39-2):
PNEC water (freshwater): 0,001 mg/L
PNEC water (marine water): 0,0001 mg/L
PNEC water (intermittent release): 0,004 mg/L
PNEC sediment (freshwater): 0,317 mg/kg
PNEC sediment (marine water): 0,032 mg/kg
PNEC sewage treatment plant: 10 g/L
PNEC soil: 0,697 mg/kg
PNEC Secondary poisoning: 60 mg/kg Food

Information about Dicyclohexylamine (CAS 101-83-7):
PNEC water (freshwater): 0,002 mg/L
PNEC water (marine water): 0,0002 mg/L
PNEC water (intermittent release): 0,01 mg/L
PNEC sediment (freshwater): 0,075 mg/kg
PNEC sediment (marine water): 0,007 mg/kg
PNEC sewage treatment plant: 21 g/L
PNEC soil: 0,014 mg/kg

Information about α,α'-propylenedinitrilodi-o-cresol (CAS 94-91-7):
PNEC water (freshwater): 0,001 mg/L
PNEC sediment (freshwater): 59,4 mg/kg
PNEC sediment (marine water): 5,67 mg/kg
PNEC sewage treatment plant: 0,5 g/L
PNEC soil: 11,8 mg/kg

Information about N,N-bis(2-Ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine (CAS 91273-04-0):
PNEC water (freshwater): 0,001 mg/L
PNEC water (marine water): 0,0001 mg/L
PNEC water (intermittent release): 0,01 mg/L
PNEC sediment (freshwater): 0,567 mg/kg
PNEC sediment (marine water): 0,057 mg/kg
PNEC sewage treatment plant: 1 g/L
PNEC soil: 0,2 mg/kg

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. In case of inadequate ventilation wear respiratory protection.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
Recommendation: Use filter type A (= against vapours of organic substances) according to DE EN 14387.

Hand protection: Protective gloves according to DIN EN ISO 374-1.
Glove material: PVC (polyvinyl chloride)
Breakthrough time: 240 min
Layer thickness: 0,8 mm
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Obtain special instructions before use. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Varying
Odour:	Like mineral oil
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	> 160 °C
Flammability:	No data available
Lower and upper explosion limit:	No data available
Flash point:	> 61 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Kinematic viscosity:	at 40 °C: < 20,5 mm²/s
Solubility:	No data available

Partition coefficient n-octanol/water (log value):
at 25 °C: 3,72 - 4,45 log P(o/w) (Diethylbenzene)
Based on the n-octanol/water partition coefficient accumulation in organisms is possible.
at 40 °C: 3,25 log P(o/w) (2,6-dimethyloct-7-en-2-ol)
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

Vapour pressure:	No data available
Density:	at 20 °C: < 1 g/mL
Relative vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct sunlight.

10.5 Incompatible materials

Acids, alkalis, oxidizing agents

10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: No data available

SECTION 11: Toxicological information

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

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 2.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 2.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 20 mg/L

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Repr. 1B; H360FD = May damage fertility. May damage the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information:

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (List no. 925-653-7):
LD50, Rat, oral: > 4.150 mg/kg (OECD TG 401)
LD50, Rabbit, dermal: > 1.700 mg/kg (OECD TG 402)
LC50, Rat, inhalative: > 5,28 mg/L (OECD TG 403)

Information about 2,6-dimethyloct-7-en-2-ol (CAS 18479-58-8):
LD50, Rat, oral: 3.200 mg/kg

Information about 2,6-di-tert-butylphenol (CAS 128-39-2):
LD50, Rat, oral: 5.000 mg/kg (OECD TG 401)
LD50, Rabbit, dermal: > 5.000 mg/kg

Information about Dicyclohexylamine (CAS 101-83-7):
ATE, oral: 200 mg/kg
ATE, dermal: 200 mg/kg
LD50, Rat, oral: 200 mg/kg
LD50, Rabbit, dermal: 200 mg/kg - 316 mg/kg
LC50, Rat, inhalative: > 1,4 mg/L

Information about α,α'-propylenedinitrilodi-o-cresol (CAS 94-91-7):
ATE, oral: 1.350 mg/kg
LD50, Rat, oral: 1.350 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 2.000 mg/kg (OECD 402)

Information about N,N-bis(2-Ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine (CAS 91273-04-0):
LD50, Rat, oral: 2.356 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 2.000 mg/kg (OECD 402)

Information about Naphthalene (CAS 91-20-3):
ATE, oral: 533 mg/kg
LD50, Mouse, oral: 533 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 16.000 mg/kg (OECD 402)
LC50, Rat, inhalative: > 0,4 mg/L (saturated vapour concentration (SVC))

Information about Diethylbenzene (CAS 25340-17-4):
LD50, Mouse, oral: >2.000 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 2.000 mg/kg (OECD 402)
LC50, Rat, inhalative: > 11,52 mg/L/7h (saturated vapour concentration (SVC))

Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Information about 2,6-dimethyloct-7-en-2-ol (CAS 18479-58-8):
Fish toxicity:
LC50 Oncorhynchus mykiss: 28,7 mg/L/96 h (OECD 203)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 38 mg/L/48 h (OECD 202)
NOEC Daphnia magna (Big water flea): 9,5 mg/L/21 d (OECD 211)
Algae toxicity:
ErC50: Desmodesmus subspicatus (green algae): 80 mg/L/72 h

Information about 2,6-di-tert-butylphenol (CAS 128-39-2):
Fish toxicity:
LC50 Pimephales promelas (fathead minnow): 1,4 mg/L/96 h (OECD 204)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 0,45 mg/L/48 h
NOEC Daphnia magna (Big water flea): 0,035 mg/L/21 d (OECD 211)
Algae toxicity:
ErC50: Pseudokirchneriella subcapitata (green algae): 1,2 mg/L/72 h (US-EPA)
NOEC Desmodesmus subspicatus (green algae): 0,64 mg/L/21 d (EPA OTS 797.1050)
Bacterial toxicity:
EC50 activated sludge: > 1.000 mg/L/3 h (OECD 209)

Information about Dicyclohexylamine (CAS 101-83-7):
Fish toxicity:
LC50 Danio rerio (zebrafish): 62 mg/L/96 h (EU C.1)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 8 mg/L/48 h (OECD 202)
NOEC Daphnia magna (Big water flea): 0,016 mg/L/21 d (OECD 211)
Algae toxicity:
ErC50: Desmodesmus subspicatus (green algae): 0,38 mg/L/72 h (EU C.3)

Information about α,α'-propylenedinitrilodi-o-cresol (CAS 94-91-7):
Fish toxicity:
LC50 Leuciscus idus: approx. 46 mg/L/96 h (DIN 38412)
NOEC Leuciscus idus: 21,5 mg/L/96 h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 3,162 mg/L/48 h (OECD 202)
NOEC Daphnia magna (Big water flea): 1,77 mg/L/48 h (OECD 202)
Algae toxicity:
ErC50: Pseudokirchneriella subcapitata (green algae):: 1,17 mg/L/72 h (OECD 201)
EC50 activated sludge: 18 mg/L/3 h (OECD 209)

Information about N,N-bis(2-Ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine (CAS 91273-04-0):
Fish toxicity:
LC50 Danio rerio (zebrafish): 1,1 mg/L/96 h (OECD 203)
Algae toxicity:
ErC50: Desmodesmus subspicatus (green algae): > 1 mg/L/72 h (OECD 201)
NOEC Desmodesmus subspicatus (green algae): 0,32 mg/L/21 d (OECD 201)

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

12.2 Persistence and degradability

Further details:

Information about 2,6-dimethyloct-7-en-2-ol (CAS 18479-58-8): Biodegradability 72 %
Readily biodegradable (OECD 301 B)

Information about α,α'-propylenedinitrilodi-o-cresol (CAS 94-91-7): Biodegradability 60-70 %/14d
Readily biodegradable (OECD 301 F)

Information about N,N-bis(2-Ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine (CAS 91273-04-0): Biodegradability 9%/28d
Not easily bio-degradable (OECD 301 B)

Information about Diethylbenzene (CAS 25340-17-4): Biodegradability 4,7%/28d
Not easily bio-degradable (OECD 301 B)

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Information about 2,6-dimethyloct-7-en-2-ol (CAS 18479-58-8): 64,8

Information about Diethylbenzene (CAS 25340-17-4): 320-629 (OECD 305 C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 01 04* = Other organic solvents, washing liquids and mother liquors
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

Section 14. Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:

UN 3082

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert-butylphenol)

14.3 Transport hazard class(es)

ADR/RID, ADN:	Class 9, Code: M6
IMDG:	Class 9, Subrisk -
IATA-DGR:	Class 9

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

III

14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:	yes
Marine pollutant - ADN:	yes

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	ADR/RID: Hazard identification number 90, UN number UN 3082
Hazard label:	9
Special Provisions:	274 335 375 601 650
Limited quantities:	5 L
EQ:	E1
Package - Instructions:	P001 IBC03 LP01 R001
Package - Special Provisions:	PP1
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T4
Portable tanks - Special Provisions:	TP1 TP29
Tank coding:	LGBV
Tunnel restriction code:	(-)

Inland waterway craft (ADN)

Hazard label:	9
Special Provisions:	274 335 375 601 650
Limited quantities:	5 L
EQ:	E1
Transport permitted:	T
Equipment necessary:	PP

Sea transport (IMDG)

EmS:	F-A, S-F
Special Provisions:	274 335 375 969
Limited quantities:	5 L
Excepted quantities:	E1
Package - Instructions:	P001, LP01
Package - Provisions:	PP1
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP1, TP29
Stowage and handling:	Category A.
Properties and observations:	-
Segregation group:	none

Air transport (IATA)

Hazard label:	Miscellaneous & Environmentally hazardous
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions:	A97 A158 A197 A215
Emergency Response Guide-Code (ERG):	9L

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Germany

Storage class: 6.1C = Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

Major Accident Ordinance (12. BImSchV):
Environmental hazards: Number 1.3.2 = Code E2,
Quantity threshold 200 000 kg / 500 000 kg

Technical guidance air: 5.2.5
5.2.7

Information on working limitations:
Observe employment restrictions for young people.
Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:
The product is controlled by the German Chemicals Prohibition Ordinance (ChemVerbotsV).

National regulations - EC member states

Labelling of packaging with <= 125mL content

Signal word: **Danger**

Hazard statements:

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360FD	May damage fertility. May damage the unborn child.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: refer to Germany, 12. BImSchV

Use restriction according to REACH annex XVII, no.: 3, 50a, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Classification procedure: Health hazards, environmental hazards: Calculation method

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.
H301 = Toxic if swallowed.
H302 = Harmful if swallowed.
H304 = May be fatal if swallowed and enters airways.
H311 = Toxic in contact with skin.
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.
H336 = May cause drowsiness or dizziness.
H351 = Suspected of causing cancer.
H360FD = May damage fertility. May damage the unborn child.
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.
EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change: Changes in section 15: Regulatory information
Date of first version: 1.3.2022
Department issuing data sheet:
see section 1: Department responsible for information

Abbreviations and acronyms:

Acute Tox.: Acute toxicity
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
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
ATE: Acute toxicity estimate
ATEmix: Acute Toxicity Estimate of mixture
Carc.: Carcinogenicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
ErC50: EC50 in terms of reduction of growth rate
EU: European Union
Eye Dam.: Eye damage
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC50: Median lethal concentration
LD50: Lethal dose 50%
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
PVC: Polyvinyl chloride
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.: Skin corrosion
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:
https://sumdat.net/7w8vz57p