



Eni Rotra ATF MBX

Material number 909

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 14.8.2024
Version: 2.1
Replaces version: 2.0
Language: en-DE
Date of print: 14.8.2024

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

1.1 Product identifier

Trade name: Eni Rotra ATF MBX

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

General use: Gearbox oil

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

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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)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

Special labelling

EUH208 Contains 4,4'-Thiodiethylene hydrogen-2-octadecenylsuccinate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.



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2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: A mixture of mineral oil and additives.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119480375-34-xxxx EC No. 265-156-6 CAS 64742-53-6	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1; H304.	20 - 25 %
REACH 01-2119487077-29-xxxx EC No. 265-158-7 CAS 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1; H304.	2,5 - 5 %
REACH 01-0000015551-76-xxxx EC No. 406-040-9 CAS 125643-61-0	Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate Aquatic Chronic 4; H413.	0,3 - 2,5 %
REACH 01-2119474878-16-xxxx EC No. 276-737-9 CAS 72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified Asp. Tox. 1; H304.	0,1 - 2,5 %
REACH 01-2119474889-13-xxxx EC No. 276-738-4 CAS 72623-87-1	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Asp. Tox. 1; H304.	0,1 - 2,5 %
REACH 01-2119480132-48-xxxx EC No. 265-159-2 CAS 64742-56-9	Distillates (petroleum), solvent-dewaxed light paraffinic Asp. Tox. 1; H304.	0,1 - 2,5 %
REACH 01-2119960832-33-xxxx list no. 701-204-9 CAS 68784-17-8	Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) Skin Irrit. 2; H315. Eye Irrit. 2; H319.	0,1 - 2,5 %
REACH 01-2120735527-50-xxxx EC No. 299-434-3 CAS 93882-40-7	4,4'-Thiodiethylene hydrogen-2-octadecenylsuccinate Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.	< 0,3 %

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



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Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

SECTION 4: First aid measures

4.1 Description of first aid measures

- 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. Take off contaminated clothing and wash it before reuse. 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. In case of eye irritation consult 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. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media:
Water spray jet, foam, extinguishing 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

Combustible.
May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

- Special protective equipment for firefighters:
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.
- Additional information:
Use fine water spray to cool endangered containers.
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

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

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.
Never return spills in original containers for re-use.

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: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Avoid oil mist formation. 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.
When handling large quantities, supply emergency spray.

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 against heat, sun rays and frost.
Store containers in upright position.
Storage temperature: 0 - 40 °C

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

7.3 Specific end use(s)

No information available.



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL: Information about Distillates (petroleum), hydrotreated light paraffinic:
DNEL Workers, long-term, systemic, inhalative: 2,73 mg/m³
DNEL Workers, long-term, local, inhalative: 5,58 mg/m³
DNEL Workers, long-term, systemic, dermal: 0,97 mg/kg bw/d
DNEL Consumer, long-term, systemic, oral: 0,74 mg/kg bw/d
Information about Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based;
Baseoil - unspecified:
DNEL Workers, long-term, systemic, inhalative: 2,73 mg/m³
DNEL Workers, long-term, local, inhalative: 5,58 mg/m³
DNEL Workers, long-term, systemic, dermal: 0,97 mg/kg bw/d
DNEL Consumer, long-term, systemic, oral: 0,74 mg/kg bw/d
Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:
DNEL Workers, long-term, systemic, inhalative: 2,73 mg/m³
DNEL Workers, long-term, local, inhalative: 5,58 mg/m³
DNEL Workers, long-term, systemic, dermal: 0,97 mg/kg bw/d
DNEL Consumer, long-term, systemic, oral: 0,74 mg/kg bw/d
Information about 4,4'-Thiodiethylene hydrogen-2-octadeceny succinate:
DNEL Workers, long-term, systemic, inhalative: 3,526 mg/m³
DNEL Workers, long-term, systemic, dermal: 2 mg/kg bw/d
DNEL Consumer, long-term, systemic, oral: 0,5 mg/kg bw/d

PNEC: Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:
PNEC oral: 9,33 mg/kg Food
Information about 4,4'-Thiodiethylene hydrogen-2-octadeceny succinate:
PNEC water (freshwater): 0,009 mg/L
PNEC water (freshwater), intermittent release: 0,095 mg/L
PNEC water (marine water): 0,001 mg/L
PNEC water (marine water), intermittent release: 0,095 mg/L
PNEC sediment (freshwater): 542229,75 mg/kg dw
PNEC sediment (marine water): 54222,98 mg/kg dw
PNEC soil: 259870,48 mg/kg dw
PNEC sewage treatment plant: 100 mg/L
PNEC oral: 20 mg/kg Food

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: 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.



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Hand protection:	Protective gloves according to DIN EN ISO 374:1. Glove material: Nitrile rubber, neoprene Layer thickness: > 0,35 mm Breakthrough time: ≥ 240 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to DIN EN ISO 16321-1:2022.
Body protection:	Wear suitable protective clothing.
General protection and hygiene measures:	Do not breathe mist/vapours/spray. Avoid oil mist formation. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. When handling large quantities, supply emergency spray.

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:	yellow-brown
Odour:	No data available
Odour threshold:	No data available
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	No data available
Flammability:	This product is non-flammable.
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	146 °C (ASTM D92)
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 40 °C: 27,4 mm ² /s (ASTM D7279)
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	< 1 log K(o/w) (Distillates (petroleum), hydrotreated light paraffinic) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. > 9,36 log K(o/w) (Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)) Based on the n-octanol/water partition coefficient accumulation in organisms is possible.
Vapour pressure:	No data available
Density:	at 15 °C: 0,851 g/mL (ASTM D4052)
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available



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Auto-ignition temperature: No data available
Evaporation rate: No data available
Additional information: Softening point: -51 °C (ASTM D5950)

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

Protect against heat, sun rays and frost.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Thermal decomposition: No decomposition when used properly.
No data available



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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.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Contains 4,4'-Thiodiethylene hydrogen-2-octadecenylsuccinate. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: 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.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.



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11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about Distillates (petroleum), hydrotreated light naphthenic:

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,53 mg/L/4h (OECD 403)

Information about Distillates (petroleum), hydrotreated light paraffinic:

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,53 mg/L/4h (OECD 403)

Information about Reaction mass of isomers of: C7-9-alkyl

3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

LD50 Rat, oral: > 2.000 mg/kg (OECD 401)

LD50 Rat, dermal: > 2.000 mg/kg (OECD 402)

Information about Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based;

Baseoil - unspecified:

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,53 mg/L/4h (OECD 403)

Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,53 mg/L/4h (OECD 403)

Information about Distillates (petroleum), solvent-dewaxed light paraffinic:

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,53 mg/L/4h (OECD 403)

Information about Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic):

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2.000 mg/kg (OECD 402)

Information about 4,4'-Thiodiethylene hydrogen-2-octadecenylsuccinate:

LD50 Rat, oral: > 10.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 3.160 mg/kg (OECD 402)



SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Information about Distillates (petroleum), hydrotreated light naphthenic:

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): > 10.000 mg/L/48h (OECD 202)

Algae toxicity:

NOEL Pseudokirchneriella subcapitata (green algae): \geq 100 mg/L/72h (OECD 201)

Information about Distillates (petroleum), hydrotreated light paraffinic:

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): > 10.000 mg/L/48h (OECD 202)

Algae toxicity:

NOEL Pseudokirchneriella subcapitata (green algae): \geq 100 mg/L/72h (OECD 201)

Information about Reaction mass of isomers of: C7-9-alkyl

3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Fish toxicity:

LC50 Danio rerio (zebrafish): > 100 mg/L/96h (OECD 203)

NOEC Danio rerio (zebrafish): \geq 0,001 mg/L/36d (OECD 210)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 100 mg/L/48h (OECD 202)

LOEC Daphnia magna (Big water flea): > 1 mg/L/21d (OECD 211)

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): > 3 mg/L/72h (OECD 201)

Information about Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based;

Baseoil - unspecified:

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): > 10.000 mg/L/48h (OECD 202)

Algae toxicity:

NOEL Pseudokirchneriella subcapitata (green algae): \geq 100 mg/L/72h (OECD 201)

Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): > 10.000 mg/L/48h (OECD 202)

Algae toxicity:

NOEL Pseudokirchneriella subcapitata (green algae): \geq 100 mg/L/72h (OECD 201)

Information about Distillates (petroleum), solvent-dewaxed light paraffinic:

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): > 10.000 mg/L/48h (OECD 202)

Algae toxicity:

NOEL Pseudokirchneriella subcapitata (green algae): \geq 100 mg/L/72h (OECD 201)

Water Hazard Class:

1 = slightly hazardous to water (Self-classification (mixture).)



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12.2 Persistence and degradability

Further details: Information about Distillates (petroleum), hydrotreated light paraffinic:
< 60%/28d.
According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Information about Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:
Not biodegradable.

Information about Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified:
According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:
According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Information about Distillates (petroleum), solvent-dewaxed light paraffinic:
According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Information about Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic):
4,5%/28d (OECD TG 301 B).

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:
260/35d (Oncorhynchus mykiss, OECD 305).

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

None

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: 13 02 05* = Mineral-based non-chlorinated engine, gear and lubricating oils
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.



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Package

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

SECTION 14: Transport information

14.1 UN number or ID number

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

not applicable

14.2 UN proper shipping name

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

Not restricted

14.3 Transport hazard class(es)

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

not applicable

14.4 Packing group

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

not applicable

14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:

no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Further regulations, limitations and legal requirements:

No data available



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National regulations - EC member states

Labelling of packaging with <= 125mL content

Hazard statements: EUH208 Contains 4,4'-Thiodiethylene hydrogen-2-octadecenylsuccinate. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:
No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

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

H304 = May be fatal if swallowed and enters airways.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H319 = Causes serious eye irritation.
H411 = Toxic to aquatic life with long lasting effects.
H413 = May cause long lasting harmful effects to aquatic life.
EUH208 = Contains 4,4'-Thiodiethylene hydrogen-2-octadecenylsuccinate. May produce an allergic reaction.
EUH210 = Safety data sheet available on request.

Reason of change: Changes in section 12: Aquatic toxicity
Date of first version: 15.12.2023
Department issuing data sheet:
see section 1: Department responsible for information



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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
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%
EL50: Effective loading rate 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Irrit.: Eye irritation
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
LC50: Median lethal concentration
LD50: Lethal dose 50%
LOEC: Lowest Observed Effect Concentration
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative

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:
<http://sumdat.net/vfzmv193>

