

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

1.1 Product identifier

Trade name: Eni i-Sigma top MS 5W-30 DE

UFI: 5AE0-M0T4-400K-CHFW

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

General use: Motor 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)

Eye Irrit. 2; H319 Causes serious eye irritation.

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

2.2 Label elements

Labelling (CLP)



Signal word: **Warning**

Hazard statements: H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.



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Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling:

Contains:
2,5-Furandione, polymer with 1-hexadecene, methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide
Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated

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



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3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
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.	20 - 25 %
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.	3 - 5 %
list no. 681-947-2 CAS 873694-48-5	2,5-Furandione, polymer with 1-hexadecene, methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide Skin Sens. 1; H317. Aquatic Chronic 4; H413. Specific concentration limits (SCL): Skin Sens. 1; H317: C > 5 %	1 - 3 %
REACH 01-2120067755-46-xxxx list no. 806-731-9 CAS 1428353-74-5	Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol Eye Irrit. 2; H319. Skin Sens. 1B; H317. Aquatic Chronic 2; H411.	< 2,5 %
REACH 01-2119657973-23-xxxx EC No. 272-238-5 CAS 68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl)esters, zinc salts Eye Dam. 1; H318. Aquatic Chronic 2; H411.	< 2,5 %
list no. 682-816-2 CAS 722503-68-6	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts Skin Sens. 1B; H317.	< 1 %
list no. 953-650-0 CAS -	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated Skin Sens. 1; H317. Repr. 2; H361d. Specific concentration limits (SCL): Repr. 2; H361d: C ≥ 17,15 %	< 1 %

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

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

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.



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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 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 an allergic skin reaction. Causes serious eye irritation.
If swallowed or in the event of vomiting, risk of entering the lungs.

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, sand, 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: Sulphur oxides, nitrogen oxides (NOx), 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: Do not inhale explosion and combustion gases. 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

Avoid breathing mist/vapours/spray. Avoid oil mist formation. 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.

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

Prevent spread over a wide area (e.g. by containment or oil barriers).
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. Avoid breathing 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. Do not put any product-impregnated cleaning rags into your trouser pockets. 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. Temperature control required.
Keep away from air. Store containers in upright position.

Hints on joint storage: Do not store together with: Easily flammable substances, strong oxidizing agents.
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.

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DNEL/DMEL:

Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS 72623-87-1):

DNEL, workers, inhalative, systemic, long-term: 2,73 mg/m³

DNEL, workers, inhalative, local, long-term: 5,58 mg/m³

DNEL, workers, dermal, systemic, long-term: 0,97 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,74 mg/kg bw/d

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

3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 125643-61-0):

DNEL, workers, inhalative, systemic, long-term: 3 mg/m³

DNEL, workers, dermal, systemic, long-term: 8,6 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 0,74 mg/m³

DNEL, consumers, dermal, systemic, long-term: 4,3 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,43 mg/kg bw/d

Information about Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol (CAS 1428353-74-5):

DNEL, workers, inhalative, systemic, long-term: 0,8 mg/m³

DNEL, workers, dermal, systemic, long-term: 1,1 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 0,2 mg/m³

DNEL, consumers, dermal, systemic, long-term: 0,6 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,1 mg/kg bw/d

Information about Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl)esters, zinc salts (CAS 68784-31-6):

DNEL, workers, inhalative, systemic, long-term: 2,93 mg/m³

DNEL, workers, inhalative, systemic, short-term: 496,4 mg/m³

DNEL, workers, dermal, systemic, long-term: 10,42 mg/kg bw/d

DNEL, workers, dermal, systemic, short-term: 100 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 11,75 mg/m³

DNEL, consumers, inhalative, systemic, short-term: 198,6 mg/m³

DNEL, consumers, dermal, systemic, long-term: 2,1 mg/kg bw/d

DNEL, consumers, dermal, systemic, short-term: 50 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,21 mg/kg bw/d

DNEL, consumers, oral, systemic, short-term: 29 mg/kg bw/d

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PNEC: Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS 72623-87-1):
PNEC, Secondary Poisoning: 9,33 mg/kg Food

Information about Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 125643-61-0):
PNEC, sewage treatment plant: 10 mg/L
PNEC, sediment (freshwater): 0,37 mg/kg dw
PNEC, sediment (marine water): 0,037 mg/kg dw
PNEC, soil: 0,632 mg/kg dw

Information about Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol (CAS 1428353-74-5):
PNEC, water (freshwater): 0,007 mg/L
PNEC, water (freshwater, intermittent release): 0,021 mg/L
PNEC, water (marine water): 0,001 mg/L
PNEC, sewage treatment plant: 10 mg/L
PNEC, sediment (freshwater): 16,74 mg/kg dw
PNEC, sediment (marine water): 1,67 mg/kg dw
PNEC, soil: 13,59 mg/kg dw

Information about Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl)esters, zinc salts (CAS 68784-31-6):
PNEC, water (freshwater): 4 µg/L
PNEC, water (freshwater, intermittent release): 44 µg/L
PNEC, water (marine water): 4,6 µg/L
PNEC, sewage treatment plant: 3,8 mg/L
PNEC, sediment (freshwater): 0,07 mg/kg dw
PNEC, sediment (marine water): 0,007 mg/kg dw
PNEC, soil: 0,055 mg/kg dw
PNEC, Secondary Poisoning: 8,33 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.
Filter A2, A2/P2 or ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to DIN EN ISO 374-1.
Glove material: Nitrile rubber, neoprene, fluoro rubber
Permeation level: 5 - 6

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.



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General protection and hygiene measures:

Avoid breathing 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. Do not put any product-impregnated cleaning rags into your trouser pockets. 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:	brown
	clear
Odour:	characteristic
Melting point/freezing point:	No data available
Boiling point:	No data available
Flammability:	No data available
Lower and upper explosion limit:	No data available
Flash point:	231 °C (c.c.)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Kinematic viscosity:	at 40 °C: 72,54 mm ² /s (DIN EN ISO 3104)
Water solubility:	Immiscible
Partition coefficient n-octanol/water (log value):	9,2 log P(o/w) (Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 125643-61-0)) Based on the n-octanol/water partition coefficient accumulation in organisms is possible.

Vapour pressure:	No data available
Density:	at 15 °C: 0,8566 g/mL (DIN 51757)
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
Additional information:	Pour point: -45 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

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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. Keep away from air.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

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): > 2.000 mg/kg

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

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated, vapour): > 20 mg/L
ATEmix (calculated, dusts/mist): > 5 mg/L

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

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin 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 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS 72623-87-1):

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 (CAS 125643-61-0):

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

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

Information about Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol (CAS 1428353-74-5):

LD50 Rat, oral: > 2.000 mg/kg (OECD 423)

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

Information about Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl)esters, zinc salts (CAS 68784-31-6):

LD50 Rat, oral: 2.900 mg/kg (OECD 401)

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

Symptoms

Frequent contact, in particular after surface drying, may cause skin and eye irritations.

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 125643-61-0):
Fish toxicity: LC50 Danio rerio (zebrafish): > 74 mg/L/96h (OECD 203)
Daphnia toxicity: EC50 Daphnia magna (Big water flea): > 100 mg/L/48h (OECD 202)
Algae toxicity: EC50 Desmodesmus subspicatus (green algae), growth rate: > 3 mg/L/72h (OECD 201)
Information about Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol (CAS 1428353-74-5):
Fish toxicity: LL50 Oncorhynchus mykiss: 10,2 mg/L/96h (OECD 203)
Daphnia toxicity: EL50 Daphnia magna (Big water flea): 4 mg/L/48h (OECD 202)
Algae toxicity: EC50 Desmodesmus subspicatus (green algae), growth rate: 7,4 mg/L/72h (OECD 201)
Information about Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl)esters, zinc salts (CAS 68784-31-6):
Fish toxicity: LL50 Oncorhynchus mykiss: 4,4 mg/L/96h (OECD 203)
Daphnia toxicity: EL50 Daphnia magna (Big water flea): 75 mg/L/48h (OECD 202)
Algae toxicity: EL50 Desmodesmus subspicatus (green algae), growth rate: 410 mg/L/72h (OECD 201)

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

12.2 Persistence and degradability

Further details: The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.
Biodegradability: Information about Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS 72623-87-1): Oxygen consumption: 31%/28d (OECD 301 F), inherently biodegradable.
Information about Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 125643-61-0): Formation of carbon dioxide: 2%/28d (OECD 301 B), not biodegradable.
Information about Coconut oil, reaction products with boric acid (H3BO3), diethanolamine and glycerol (CAS 1428353-74-5): Oxygen consumption: 87%/28d (OECD 301 F), readily biodegradable.
Information about Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl)esters, zinc salts (CAS 68784-31-6): Oxygen consumption: < 5%/27d (OECD 301 D), not biodegradable.



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12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

9,2 log P(o/w) (Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 125643-61-0))
Based on the n-octanol/water partition coefficient accumulation in organisms is possible.

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 08* = Other engine, gear and lubricating oils
* = Evidence for disposal must be provided.

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

Package

Waste key number: 15 01 10* = Packaging containing residues of or contaminated by dangerous substances
* = Evidence for disposal must be provided.

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

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements: H317 May cause an allergic skin reaction.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

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

P501 Dispose of contents/container to hazardous or special waste collection point.



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Further regulations, limitations and legal requirements:

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

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Classification procedure: Physical hazards: on basis of test data

Health hazards, environmental hazards: calculation method

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

H304 = May be fatal if swallowed and enters airways.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H361d = Suspected of damaging the unborn child.

H411 = Toxic to aquatic life with long lasting effects.

H413 = May cause long lasting harmful effects to aquatic life.

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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
ATEmix: Acute Toxicity Estimate of mixture
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%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
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
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
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
Repr.: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
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:
<https://sumdat.net/ga45xbk6>

