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

## 1.1 Product identifier

Trade name: Eni CHF

UFI: XJ90-C0EN-N00T-8GU2

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

General use: Hydraulic fluid

## 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)**

Acute Tox. 4; H332 Harmful if inhaled.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 3; H412 Harmful 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.
H332 Harmful if inhaled.
H412 Harmful 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. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

**Special labelling**

| | |
|---|---|
| EUH208 | Contains Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate, Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate. May produce an allergic reaction. |

Text for labelling: Contains Dec-1-ene, dimers, hydrogenated.

## 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: Highly refined mineral oils and additives.

Hazardous ingredients:

| Identifiers | Designation<br>Classification | Content |
|---|---|---|
| REACH 01-2119493069-28-xxxx<br>EC No. 500-228-5<br>CAS 68649-11-6 | Dec-1-ene, dimers, hydrogenated<br>Acute Tox. 4; H332. Asp. Tox. 1; H304. | 50 - 80 % |
| REACH<br>01-2120785714-43-xxxx<br>list no. 948-071-5<br>CAS - | Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate<br>Acute Tox. 4; H302. Skin Irrit. 2; H315.<br>Eye Dam. 1; H318. Skin Sens. 1B; H317.<br>Aquatic Chronic 1; H410.<br>M-factors:<br>Aquatic Chronic 1: M = 1. | < 1 % |
| REACH<br>01-2120786863-37-xxxx<br>EC No. 270-220-1<br>CAS 68413-48-9 | Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate<br>Skin Sens. 1B; H317. Aquatic Chronic 4; H413. | < 0,3 % |
| REACH 01-2119491299-23-xxxx<br>EC No. 270-128-1<br>CAS 68411-46-1 | Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene<br>Repr. 2; H361f. Aquatic Chronic 3; H412. | < 0,3 % |

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. First aider: Pay attention to self-protection!

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: Wash with generous amount of water and soap. 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: Never give anything by mouth to an unconscious person. Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Caution if victim vomits: Risk of aspiration! Keep airway open. Immediately get medical attention.

## 4.2 Most important symptoms and effects, both acute and delayed

Harmful if inhaled.
May be fatal if swallowed and enters airways.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.

# 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: Aldehydes, 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: Move undamaged containers from immediate hazard area if it can be done safely. Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water. If necessary notify appropriate authorities. 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

Eliminate all ignition sources if safe to do so. Avoid breathing mist/vapours/spray. Avoid contact with the substance.
If possible, eliminate leakage. Provide adequate ventilation.
Take off contaminated clothing and wash it before reuse.
Wear appropriate protective equipment. Keep unprotected people away.

## 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies 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. Avoid breathing mist/vapours/spray. Avoid oil mist formation.
Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.
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.

Precautions against fire and explosion:
Keep away from sources of ignition - No smoking.
Take action to prevent static discharges.

## 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.
Storage temperature: < 40 °C

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

Storage class: 10 = Combustible liquids, unless storage class 3

## 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 |
|---|---|---|---|
| 68649-11-6 | Dec-1-ene, dimers, hydrogenated | Germany: TRGS 900 Kurzzeit | 20 mg/m³ (respirable fraction) |
| | | Germany: TRGS 900 Langzeit | 5 mg/m³ (respirable fraction) |

DNEL/DMEL:

Information about Dec-1-ene, dimers, hydrogenated:
DNEL workers, inhalative, short-term, systemic: 60 mg/m³
DNEL workers, inhalative, short-term, local: 60 mg/m³
DNEL consumers, inhalative, short-term, systemic: 50 mg/m³
DNEL consumers, inhalative, short-term, local: 50 mg/m³

Information about Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate:
DNEL workers, inhalative, long-term, systemic: 1,23 mg/m³
DNEL workers, dermal, long-term, systemic: 0,35 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 0,218 mg/m³
DNEL consumers, dermal, long-term, systemic: 0,125 mg/kg bw/d
DNEL consumers, oral, long-term, systemic: 0,125 mg/kg bw/d

Information about Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:
DNEL workers, inhalative, long-term, systemic: 49,3 mg/m³
DNEL workers, dermal, long-term, systemic: 14 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 8,7 mg/m³
DNEL consumers, dermal, long-term, systemic: 5 mg/kg bw/d
DNEL consumers, oral, long-term, systemic: 5 mg/kg bw/d

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
DNEL workers, inhalative, long-term, systemic: 0,31 mg/m³
DNEL workers, dermal, long-term, systemic: 0,44 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 0,08 mg/m³
DNEL consumers, dermal, long-term, systemic: 0,22 mg/kg bw/d
DNEL consumers, oral, long-term, systemic: 0,05 mg/kg bw/d

PNEC:

Information about Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate:
PNEC water (freshwater): 1,9 µg/L
PNEC water (freshwater), intermittent release: 19 µg/L
PNEC water (marine water): 0,19 µg/L
PNEC water (marine water), intermittent release: 1,9 µg/L
PNEC sediment (freshwater): 7,57 mg/kg dw
PNEC sediment (marine water): 0,757 mg/kg dw
PNEC soil: 1,51 mg/kg dw

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
PNEC water (freshwater): 0,034 mg/L
PNEC water (freshwater), intermittent release: 0,51 mg/L
PNEC water (marine water): 0,003 mg/L
PNEC sediment (freshwater): 0,446 mg/kg dw
PNEC sediment (marine water): 0,045 mg/kg dw
PNEC soil: 17,6 mg/kg dw
PNEC sewage treatment plant: 10 mg/L
PNEC oral: 0,833 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. Respiratory protection must be worn whenever the WEL levels have been exceeded.
Recommendation: When aerosols and vapours form wear filter apparatus type A (= against vapours of organic compounds).
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Solvent resistant protective gloves (EN 374).
Glove material: Nitrile rubber (NBR)
Layer thickness: ≥ 0,35 mm.
Breakthrough time: > 480 min.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Avoid breathing mist/vapours/spray. Avoid oil mist formation. 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<br>Form: clear |
| Colour: | yellow |
| Odour: | Characteristic |
| Odour threshold: | No data available |
| Melting point/freezing point: | -63 °C (ASTM D5950) |
| Initial boiling point and boiling range: | No data available |
| Flammability: | Non-flammable |
| Upper/lower flammability or explosive limits: | No data available |
| Flash point/flash point range: | 174 °C (c.c.) |
| Decomposition temperature: | No data available |
| pH: | No data available |
| Viscosity, kinematic: | at 40 °C: 17,9 mm²/s (ASTM D7279) |
| Water solubility: | Immiscible |
| Partition coefficient: n-octanol/water: | at 25 °C: >= 5 log K(o/w) (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene)<br>Based on the n-octanol/water partition coefficient accumulation in organisms is possible. |
| Vapour pressure: | No data available |
| Density: | at 15 °C: 0,818 kg/L (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

Auto-ignition temperature: No data available

Evaporation rate: No data available
Additional information: 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

Reacts violently with strong oxidizing agents and acids.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Strong oxidizing agents, acids.

### 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.

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

Acute toxicity (inhalative): Acute Tox. 4; H332 = Harmful if inhaled.
ATE (dust/mist): 1,642 mg/L/4h

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.
Contains Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate, Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

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:

None

Other information:

Information about Dec-1-ene, dimers, hydrogenated:
LD50 Rat, oral: > 5.000 mg/kg (OECD 401)
LD50 Rat, dermal: > 2.000 mg/kg (OECD 402)
LC50 Rat, inhalative (dust/mist): 1,17 mg/L/4h (OECD 403)

Information about Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate:
LD50 Rat, oral: 300 mg/kg (OECD 420)

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
LD50 Rat, oral: > 5.000 mg/kg (OECD 401)
LD50 Rat, dermal: > 2.000 mg/kg (OECD 402)

### Symptoms

Eye irritations, irritation to respiratory tract, headache, cough, dizziness, depression of central nervous system.
In case of ingestion: Danger of lung oedema.

# SECTION 12: Ecological information

## 12.1 Toxicity

Aquatic toxicity:

Information about Dec-1-ene, dimers, hydrogenated:
Fish toxicity:
LL50 Oncorhynchus mykiss: > 1.000 mg/L/96h (OECD 203)
Daphnia toxicity:
LL50 Mysidopsis bahia: > 5.056 mg/L/96h (OECD 202)
Algae toxicity:
EL50 Scenedesmus subspicatus: > 1.000 mg/L/72h (OECD 201)

Information about Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate:
Fish toxicity:
LC50 Oncorhynchus mykiss: 18 mg/L/96h (OECD 203)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 6,8 mg/L/48h (OECD 202)
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): 1,9 mg/L/72h (OECD 201)

Information about Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:
Fish toxicity:
LL50 Oncorhynchus mykiss: > 100 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): > 100 mg/L/72h (OECD 201)

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
Fish toxicity:
LC50 Danio rerio (zebrafish): > 100 mg/L/96h (OECD 203)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 51 mg/L/48h (OECD 202)
Algae toxicity:
EC50 Desmodesmus subspicatus (green algae): > 100 mg/L/72h (OECD 201)

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

## 12.2 Persistence and degradability

Further details:

Information about Dec-1-ene, dimers, hydrogenated:
Biodegradability: Specific.

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
Biodegradability: 8% / 28 d (OECD 301, read-across)

## 12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

Bioconcentration factor (BCF):

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
BCF: 1730 / 42 d

## 12.4 Mobility in soil

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
log Koc: 3,8

### 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 penetrate into soil, waterbodies or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**

Waste key number: 13 01 13* = Other hydraulic oils
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

**Package**

Recommendation: Empty containers may contain flammable product residues. Do not cut, weld, bore, burn or incinerate emptied containers unless they have been cleaned and declared safe. Empty containers should be disposed of in accordance with local regulations.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR:
not applicable

ADN: ID 9006

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

ADN: Class 9, Code: M12

### 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

### Inland waterway craft (ADN)

| | |
|---|---|
| Hazard label: | - |
| Transport permitted: | T |
| Equipment necessary: | PP |

## 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, unless storage class 3 |
| Water Hazard Class: | 1 = slightly hazardous to water (Self-classification (mixture).) |
| Technical guidance air: | 5.2.5 |

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 not subject to the 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. |
| H332 | Harmful if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate, Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate. May produce an allergic reaction. |

Precautionary statements:

| | |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

Further regulations, limitations and legal requirements:

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

## 15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Dec-1-ene, dimers, hydrogenated
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

# SECTION 16: Other information

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

H302 = Harmful if swallowed.
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.
H332 = Harmful if inhaled.
H361f = Suspected of damaging fertility.
H410 = Very toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
H413 = May cause long lasting harmful effects to aquatic life.
EUH208 = Contains Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate, Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate. May produce an allergic reaction.

Reason of change: Changes in section 1: Details of the supplier of the safety data sheet
General revision

Date of first version: 29.10.2020

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 Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
BCF: Bioconcentration Factor
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 Dam.: Eye damage
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%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
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
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
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:
http://sumdat.net/aid9p29y