

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878

117-159-004  
Version 7.0

ED 159 (dif. colors)  
Revision date 15 Feb 2026

Print date 8 Apr 2026

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

### 1.1 Product identifier

#### Trade name/designation

117-159-004 ED 159 (dif. colors)  
CHING-ZINC-REPAIR-PAINT  
THICKNESS 60-100 µm  
UFI: GCNG-72P9-H00P-Y54M

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

#### Relevant identified uses

Corrosion Protection and Industrial Coatings.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

CHEMISCHE INDUSTRIE ERLANGEN GMBH  
Rathenastr. 18 Telephone: +49 9131 3006-0  
91052 Erlangen E-mail: info@ching-coatings.com  
Germany Website: <https://www.ching-coatings.com>

#### Department responsible for information

E-mail (competent person) msds@ching-coatings.com

### 1.4 Emergency telephone number

Emergency telephone number: +49 9131 3006 91  
Only available during office hours.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 H226 Flammable liquid and vapour.  
Aquatic Acute 1 H400 Very toxic to aquatic life.  
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

#### Hazard pictograms



GHS02 GHS09

#### Signal word

Warning

#### Hazard statements

H226 Flammable liquid and vapour.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
P391 Collect spillage.  
P403 + P235 Store in a well-ventilated place. Keep cool.

#### Hazard components for labelling

not applicable

#### Supplemental hazard information

not applicable

### 2.3 Other hazards

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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
 The mixture contains  $\geq 0.1\%$  of substances that have endocrine disrupting properties. See SECTION 3 of this safety data sheet.

### SECTION 3: Composition/information on ingredients.

#### 3.2 Mixtures

##### Description

Coating based on epoxy ester

##### Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	% [mass]
7440-66-6 231-175-3 030-001-01-9	<b>zinc powder - zinc dust (stabilised)</b> 01-2119467174-37 Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 ATE (oral): $> 2,000$ mg/kg ATE (inhalative): $= 5.41$ mg/L (4 h)	50,0 < 70,0
- 918-811-1 -	<b>Naphta, C10 aromatics, &lt;1% naphtalene</b> 01-2119463583-34 Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411 ATE (dermal): $> 3,160$ mg/kg ATE (oral): $= 3,492$ mg/kg ATE (inhalative): $> 6,193$ mg/L (4 h)	5,00 < 7,00
1330-20-7 215-535-7 601-022-00-9	<b>o-xylene</b> 01-2119488216-32 Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / STOT SE 3 H335 / STOT RE 2 H373 / Aquatic Chronic 3 H412 ATE (dermal): $= 12,126$ mg/kg ATE (oral): $= 3,523$ mg/kg ATE (dermal): $= 1,100$ mg/kg ATE (inhalative): $= 27,571$ mg/L (4 h)	5,00 < 7,00
* 64742-48-9 919-857-5 -	<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b> Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 ATE (oral): $> 5,000$ mg/kg ATE (inhalative): $> 5,000$ mg/L (4 h) ATE (dermal): $> 5,000$ mg/kg	3,00 < 5,00
80-05-7 201-245-8 604-030-00-0	<b>bisphenol A</b> 01-2119457856-23 Skin Sens. 1 H317 / Eye Dam. 1 H318 / STOT SE 3 H335 / Repr. 1B H360F / Aquatic Acute 1 H400 (M = 1,00) / Aquatic Chronic 1 H410 (M = 10,00) ATE (dermal): $= 3,000$ mg/kg ATE (oral): $> 2,000$ mg/kg SVHC ED	< 0,025

##### Remark

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

In all cases of doubt, or when symptoms persist, seek medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

##### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

##### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Wash contaminated clothing before reuse.

##### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### **Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### **Self-protection of the first aider**

First aider: Pay attention to self-protection!

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

##### **Symptoms**

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Powder, spray mist, (water)

##### **Unsuitable extinguishing media**

Strong water jet

#### **5.2 Special hazards arising from the substance or mixture**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

##### **Hazardous combustion products**

Hazardous combustion products: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, smoke, Nitrogen oxides (NO<sub>x</sub>).

#### **5.3 Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area. Do not breathe vapours.

#### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### **6.3 Methods and material for containment and cleaning up**

##### **For containment**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

##### **For cleaning up**

Clean using cleansing agents. Do not use solvents.

#### **6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

##### **Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities.

Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. Personal protection equipment: see section 8.

Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Additional information**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Access only for authorised persons. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Storage class** LGK3 - Flammable liquids

**Further information on storage conditions**

Take care of instructions on label. Protect from heat and direct sunlight. Smoking is forbidden. Remove all sources of ignition. Keep container tightly closed. Store carefully closed containers upright to prevent any leaks.

**7.3 Specific end use(s)**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
7429-90-5	aluminium powder (stabilised)	WEL	4 / - (-) mg/m <sup>3</sup> (respirable fraction)
7429-90-5	aluminium powder (stabilised)	WEL	10 / - (-) mg/m <sup>3</sup> (inhalable fraction)
80-05-7	bisphenol A	WEL	2 / - (-) mg/m <sup>3</sup>
1330-20-7	o-xylene	WEL	220 / 441 (-) mg/m <sup>3</sup> (may be absorbed through the skin)

**Additional information**

Long-term: Long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

**Biological limit values**

CAS No.	Substance name	Source	Value/ Test material
1330-20-7	o-xylene	BMGV	650 mmol/mol creatinine / urine end of exposure or end of shift

**DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
80-05-7	bisphenol A	DNEL long-term dermal (systemic)	1.4 mg/kg
80-05-7	bisphenol A	DNEL long-term inhalative (systemic)	10 mg/m <sup>3</sup>
80-05-7	bisphenol A	DNEL acute inhalative (systemic)	10 mg/m <sup>3</sup>
1330-20-7	o-xylene	DNEL acute dermal, short-term (local)	289 mg/kg

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1330-20-7	o-xylene	DNEL acute dermal, short-term (systemic)	289 mg/kg
1330-20-7	o-xylene	DNEL long-term dermal (systemic)	180 mg/kg
1330-20-7	o-xylene	DNEL long-term inhalative (systemic)	77 mg/m <sup>3</sup>
7440-66-6	zinc powder - zinc dust (stabilised)	DNEL long-term dermal (systemic)	83.3 mg/kg
7440-66-6	zinc powder - zinc dust (stabilised)	DNEL long-term inhalative (systemic)	5 mg/m <sup>3</sup>

**PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
80-05-7	bisphenol A	PNEC sewage treatment plant (STP)	320 mg/L
80-05-7	bisphenol A	PNEC sediment, marine water	0.22 mg/kg
80-05-7	bisphenol A	PNEC sediment, freshwater	2.2 mg/kg
80-05-7	bisphenol A	PNEC aquatic, freshwater	0.018 mg/L
80-05-7	bisphenol A	PNEC aquatic, marine water	0.018 mg/L
80-05-7	bisphenol A	PNEC soil, freshwater	3.7 mg/kg
1330-20-7	o-xylene	PNEC aquatic, intermittent release	0.327 mg/L
1330-20-7	o-xylene	PNEC sewage treatment plant (STP)	6.58 mg/L
1330-20-7	o-xylene	PNEC sediment, marine water	12.46 mg/kg
1330-20-7	o-xylene	PNEC sediment, freshwater	12.46 mg/kg
1330-20-7	o-xylene	PNEC aquatic, freshwater	0.327 mg/L
1330-20-7	o-xylene	PNEC aquatic, marine water	0.327 mg/L
1330-20-7	o-xylene	PNEC soil, freshwater	2.31 mg/kg
7440-66-6	zinc powder - zinc dust (stabilised)	PNEC sediment, marine water	56.5 mg/kg
7440-66-6	zinc powder - zinc dust (stabilised)	PNEC sediment, freshwater	117.8 mg/kg
7440-66-6	zinc powder - zinc dust (stabilised)	PNEC aquatic, freshwater	0.021 mg/L
7440-66-6	zinc powder - zinc dust (stabilised)	PNEC aquatic, marine water	0.006 mg/L
7440-66-6	zinc powder - zinc dust (stabilised)	PNEC soil, freshwater	35.6 mg/kg

**8.2 Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used:

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material  $\geq$  0.4 mm

Breakthrough time  $\geq$  480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

Recommended glove articles: EN ISO 374

**Skin protection**

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Eye glasses with side protection: EN 166

### Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

### Remark

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

### Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	grey
Odour	characteristic
pH at 20 °C	not determined
Melting point/freezing point	409 °C
	Source: zinc powder - zinc dust (stabilised)
Initial boiling point and boiling range	137 °C
Flash point	32 °C
flammability	Flammable liquid and vapour.
Lower explosion limit at 20°C	0.6 Vol-%
	Source: epoxy resin
Upper explosion limit at 20°C	8 Vol-%
	Source: o-xylene
Vapour pressure at 20°C	0.664 mbar
Relative vapour density	not applicable
Density at 20 °C	2.6 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Auto-ignition temperature	340 °C
	Source: aluminium powder (stabilised)
Decomposition temperature	not determined
Kinematic viscosity at 20 °C	40-60 DIN-8-Sek
Dynamic viscosity at 20 °C	40-60 DIN-8-Sek
Viscosity	> 60s / 4mm
particle characteristics	not applicable

### 9.2 Other information

Solid content	83.1 %
solvent content	11.0 %
Water content	0 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

#### 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

### SECTION 11: Toxicological information

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

##### Acute toxicity

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

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LD50: oral (Rat): > 5,000 mg/kg

LC50: inhalative (Rat): > 5,000 mg/L (4 h)

LD50: dermal (Rat): > 5,000 mg/kg

##### Naphta, C10 aromatics, <1% naphtalene

LD50: dermal (Rabbit): > 3,160 mg/kg

LD50: oral (Rat): = 3,492 mg/kg

LC50: inhalative (Rat): > 6,193 mg/L (4 h)

##### bisphenol A

LD50: dermal (Rabbit): = 3,000 mg/kg

LD50: oral (Rat): > 2,000 mg/kg

##### o-xylene

LD50: dermal (Rabbit): = 12,126 mg/kg

LD50: oral (Rat): = 3,523 mg/kg; (OECD 423)

LD50: dermal (Rat): = 1,100 mg/kg

LC50: inhalative (Rat): = 27,571 mg/L (4 h)

##### zinc powder - zinc dust (stabilised)

LD50: oral (Rat): > 2,000 mg/kg; (OECD 401)

LC50: inhalative (Rat): = 5.41 mg/L (4 h); (OECD 403)

##### Skin corrosion/irritation

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

##### Serious eye damage/eye irritation

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

##### Respiratory or skin sensitisation

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

##### Overall assessment on CMR properties

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

##### STOT-single exposure

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

##### STOT-repeated exposure

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

##### Aspiration hazard

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

##### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## 11.2 Information on other hazards

### Endocrine disrupting properties

This product contains a substance that has endocrine disrupting properties with respect to humans.

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

#### **o-xylene**

EC50 < 1,000 mg/L (15 h)

#### **Algae toxicity**

##### **bisphenol A**

ErC50: = 2.73 mg/L (96 h)

##### **o-xylene**

ErC50: (Scenedesmus subspicatus): < 100 mg/L (72 h)

Method: OECD 201

#### **Daphnia toxicity**

##### **Naphta, C10 aromatics, <1% naphtalene**

EC50 = 10 mg/L (48 h)

##### **o-xylene**

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

Method: OECD 202

EC50 (Daphnia magna (Big water flea)): < 165 mg/L (48 h)

#### **Fish toxicity**

##### **Naphta, C10 aromatics, <1% naphtalene**

LC50: = 5 mg/L (96 h)

##### **bisphenol A**

LC50: (Pimephales promelas (fathead minnow)): = 4.6 mg/L (96 h)

##### **o-xylene**

LC50: (Oncorhynchus mykiss (Rainbow trout)): < 100 mg/L (96 h)

Method: OECD 203

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 14 mg/L (96 h)

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Endocrine disrupting properties

The product contains a substance that is identified as having endocrine disrupting properties.

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### **Product/Packaging disposal**

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### **Waste codes/waste designations according to EWC/AVV**

080111\* - Waste paint and varnish containing organic solvents or other dangerous substances

\* Hazardous waste according to Directive 2008/98/EC (waste framework directive).

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**Other disposal recommendations**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

UN 1263

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

Paint

**Sea transport (IMDG)**

Paint

**Air transport (ICAO-TI / IATA-DGR)**

Paint

**14.3 Transport hazard class(es)**

Land transport (ADR/RID) 3

Sea transport (IMDG) 3

Air transport (ICAO-TI / IATA-DGR) 3

**14.4 Packing group**

Land transport (ADR/RID) III

Sea transport (IMDG) III

Air transport (ICAO-TI / IATA-DGR) III

**14.5 Environmental hazards**

Land transport (ADR/RID) ENVIRONMENTALLY HAZARDOUS

Sea transport (IMDG) Marine pollutant

**14.6 Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**14.7 Maritime transport in bulk according to IMO instruments**

No transport as bulk according to IBC Code.

**14.8 Additional information**

**Land transport (ADR/RID)**

Tunnel restriction code: D/E

Limited quantity (LQ): 5 ltr

Hazard identification number (Kemler No.): 30

**Sea transport (IMDG)**

EmS-No.: F-E, S-E

Limited quantity (LQ): 5 ltr

**Air transport (ICAO-TI / IATA-DGR)**

Limited quantity (LQ): 10 Liter

**SECTION 15: Regulatory information**

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

**EU legislation**

**Authorisations and/or restrictions on use**

**Contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH**

bisphenol A

**Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**

Use restriction according to REACH annex XVII, no.: 03, 40

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC value: 436 g/l

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC limit value: 2004/42/IIA(i): 500 g/l (2010)

Maximum VOC content of the product in a ready to use condition: 436 g/L

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

\* **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**  
**Hazard categories / Named dangerous substances**

E1 Hazardous to the aquatic environment in Category Acute 1 or Chronic 1

Quantity 1: 100t; Quantity 2: 200t

P5c FLAMMABLE LIQUIDS

Quantity 1: 5,000t; Quantity 2: 50,000t

**Regulation (EU) 2019/1148 (marketing and use of explosives precursors)**

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

\* **National regulations**

Observe in addition any national regulations!

**Water hazard class**

**15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360F	May damage fertility.
H373	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
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.

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

Flam. Liq. 3	On basis of test data.
Aquatic Acute 1	Calculation method.
Aquatic Chronic 1	Calculation method.

**Key literature references and sources for data**

Data arise from reference works and literature.

**Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic and Reprotoxic

DIN: German Institute for Standardization / German industrial standard

DNEL: Derived No-Effect Level

EAKV: European Waste Catalogue Directive

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EC: Effective Concentration  
EC: European Community  
EN: European Standard  
EU/EEA: European Economic Area  
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  
ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG Code: International Maritime Code for Dangerous Goods  
ISO: International Organization for Standardization  
LC: Lethal Concentration  
LD: Lethal Dose  
:  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Cooperation and Development  
PBT: persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version.

replaces version: 6.0

replaces revision of: 9 Dec 2025