

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



411-182-002K  
Version 2.3

HV 182 K (dif. colors)  
Revision date 24 Mar 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

411-182-002K HV 182 K (dif. colors)  
CHING-HYDROVERSAL-PRIMER  
20 µm

### 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].  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

#### Hazard pictograms

not applicable

#### Signal word

not applicable

#### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.  
P501 Dispose of contents/container to industrial incineration plant.

#### Hazard components for labelling

not applicable

#### Supplemental hazard information

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

### 2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients.

### 3.2 Mixtures

#### Description

Coating based on waterborne synthetic resins

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**Hazardous ingredients**

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	% [mass]
* 5131-66-8 225-878-4 603-052-00-8	<b>3-butoxypropan-2-ol</b> 01-2119475527-28 Skin Irrit. 2 H315 / Eye Irrit. 2 H319 ATE (dermal): > 2,000 mg/kg ATE (oral): = 3,300 mg/kg	3,00 < 5,00
* 34590-94-8 252-104-2 -	<b>Dipropylene glycol methylether</b> 01-2119450011-60 ATE (dermal): = 9,510 mg/kg ATE (oral): > 5,135 mg/kg Substance with a common (EC) occupational exposure limit value.	3,00 < 5,00
* 7779-90-0 231-944-3 030-011-00-6	<b>trizinc bis(orthophosphate)</b> 01-2119485044-40 Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 ATE (oral): > 5,000 mg/kg ATE (inhalative): > 5.7 mg/L (4 h)	2,00 < 2,50
* 1336-21-6 215-647-6 007-001-01-2	<b>ammonia</b> 01-2119488876-14 Skin Corr. 1B H314 / Aquatic Acute 1 H400 Specific concentration limit (SCL) STOT SE 3 H335: >= 5,00 ATE (oral): > 350 mg/kg	0,100 < 0,150
* 2634-33-5 220-120-9 613-088-00-6	<b>1,2-benzisothiazol-3(2H)-one</b> 01-2120761540-60 Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 1,00) / Aquatic Chronic 1 H410 (M = 1,00) Specific concentration limit (SCL) Skin Sens. 1A H317: >= 0,036 ATE (oral): = 450 mg/kg bw	< 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 contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### 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). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. 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** LGK12 - non-combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. 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 (peak limitation)
* 34590-94-8	Dipropylene glycol methylether	WEL	308 / - ( - ) mg/m <sup>3</sup> (may be absorbed through the skin)
* 1317-65-3	Limestone	WEL	10 / - ( - ) mg/m <sup>3</sup> (inhalable fraction)
* 1317-65-3	Limestone	WEL	4 / - ( - ) mg/m <sup>3</sup> (respirable fraction)
* 14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	WEL	1 / - ( - ) mg/m <sup>3</sup> (respirable fraction)

#### Additional information

Long-term: Long-term occupational exposure limit value  
 short-term: short-term occupational exposure limit value

#### Biological limit values

No data available

#### DNEL worker

CAS No.	Substance name	DNEL type	DNEL value
* 5131-66-8	3-butoxypropan-2-ol	DNEL long-term dermal (systemic)	52 mg/kg
* 5131-66-8	3-butoxypropan-2-ol	DNEL long-term inhalative (systemic)	147 mg/m <sup>3</sup>
* 34590-94-8	Dipropylene glycol methylether	DNEL long-term dermal (systemic)	283 mg/kg
* 34590-94-8	Dipropylene glycol methylether	DNEL long-term inhalative (systemic)	308 mg/m <sup>3</sup>
* 1336-21-6	ammonia	DNEL long-term dermal (systemic)	6.8 mg/kg
* 1336-21-6	ammonia	DNEL long-term inhalative (systemic)	47.6 mg/m <sup>3</sup>
* 7779-90-0	trizinc bis(orthophosphate)	DNEL long-term dermal (systemic)	83 mg/kg
* 7779-90-0	trizinc bis(orthophosphate)	DNEL long-term inhalative (systemic)	5 mg/m <sup>3</sup>

#### PNEC

CAS No.	Substance name	PNEC type	PNEC Value
* 5131-66-8	3-butoxypropan-2-ol	PNEC aquatic, intermittent release	5.25 mg/L
* 5131-66-8	3-butoxypropan-2-ol	PNEC sewage treatment plant (STP)	10 mg/L
* 5131-66-8	3-butoxypropan-2-ol	PNEC sediment, marine water	0.236 mg/kg
* 5131-66-8	3-butoxypropan-2-ol	PNEC sediment, freshwater	2.36 mg/kg
* 5131-66-8	3-butoxypropan-2-ol	PNEC aquatic, freshwater	0.525 mg/L
* 5131-66-8	3-butoxypropan-2-ol	PNEC aquatic, marine water	0.0525 mg/L
* 5131-66-8	3-butoxypropan-2-ol	PNEC soil, freshwater	0.16 mg/kg
* 34590-94-8	Dipropylene glycol methylether	PNEC aquatic, intermittent release	190 mg/L
* 34590-94-8	Dipropylene glycol methylether	PNEC sewage treatment plant	4,168 mg/L

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		(STP)	
*	34590-94-8	Dipropylene glycol methylether	PNEC sediment, marine water 7.02 mg/kg
*	34590-94-8	Dipropylene glycol methylether	PNEC sediment, freshwater 70.2 mg/kg
*	34590-94-8	Dipropylene glycol methylether	PNEC aquatic, freshwater 19 mg/L
*	34590-94-8	Dipropylene glycol methylether	PNEC aquatic, marine water 1.9 mg/L
*	34590-94-8	Dipropylene glycol methylether	PNEC soil, freshwater 2.74 mg/kg
*	1336-21-6	ammonia	PNEC aquatic, freshwater 0.001 mg/L
*	1336-21-6	ammonia	PNEC aquatic, marine water 0.001 mg/L
*	7779-90-0	trizinc bis(orthophosphate)	PNEC sewage treatment plant (STP) 100 mg/L
*	7779-90-0	trizinc bis(orthophosphate)	PNEC sediment, marine water 56.5 mg/kg
*	7779-90-0	trizinc bis(orthophosphate)	PNEC sediment, freshwater 117.8 mg/kg
*	7779-90-0	trizinc bis(orthophosphate)	PNEC aquatic, freshwater 20.6 mg/L
*	7779-90-0	trizinc bis(orthophosphate)	PNEC aquatic, marine water 6.1 mg/L
*	7779-90-0	trizinc bis(orthophosphate)	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	brown	
Odour	characteristic	
pH at 23.0 °C (25%)	7.5 - 9.5	DIN 53785
Melting point/freezing point	-85 °C	

Source: 3-butoxypropan-2-ol

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Initial boiling point and boiling range	100 °C
Flash point	not applicable
flammability	not applicable
Lower explosion limit at 20°C	1.1 Vol-% Source: Dipropylene glycol methylether
Upper explosion limit at 20°C	14 Vol-% Source: Dipropylene glycol methylether
Vapour pressure at 20°C	0.6 mbar
Relative vapour density	not applicable
Density at 20 °C	1.4 kg/l
Water solubility at 20°C	partially soluble
Partition coefficient: n-octanol/water	see section 12
Auto-ignition temperature	260 °C Source: 3-butoxypropan-2-ol
Decomposition temperature	not determined
Kinematic viscosity at 20 °C	50-60 DIN-4-SEK
Dynamic viscosity at 20 °C	50-60 DIN-4-SEK
Viscosity	> 50s / 4mm
particle characteristics	not applicable

## 9.2 Other information

Solid content	61.6 %
solvent content	8.4 %
Water content	30 %

## 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.

\* **1,2-benzisothiazol-3(2H)-one**

LD50: oral (Rat): = 450 mg/kg bw

\* **3-butoxypropan-2-ol**

LD50: dermal (Rat): > 2,000 mg/kg; (OECD 402)

LD50: oral (Rat): = 3,300 mg/kg; (OECD 423)

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- \* **Dipropylene glycol methylether**  
LD50: dermal (Rabbit): = 9,510 mg/kg  
LD50: oral (Rat): > 5,135 mg/kg; (OECD 401)

- \* **ammonia**  
LD50: oral (Rat): > 350 mg/kg

- \* **trizinc bis(orthophosphate)**  
LD50: oral (Rat): > 5,000 mg/kg  
LC50: inhalative (Rat): > 5.7 mg/L (4 h)

**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 does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Harmful to aquatic life with long lasting effects.

**Algae toxicity**

- \* **1,2-benzisothiazol-3(2H)-one**  
ErC50: (Pseudokirchneriella subcapitata): = 0.11 mg/L (72 h)

- \* **3-butoxypropan-2-ol**  
ErC50: (Pseudokirchneriella subcapitata): > 1,000 mg/L (96 h)

- \* **Dipropylene glycol methylether**  
ErC50: (Selenastrum capricornutum): = 969 mg/L (96 h)

- \* **trizinc bis(orthophosphate)**  
ErC50: > 100 mg/L

**Daphnia toxicity**

- \* **1,2-benzisothiazol-3(2H)-one**  
EC50 (Daphnia magna (Big water flea)): = 2.94 mg/L (48 h)

- \* **3-butoxypropan-2-ol**  
EC50 (Daphnia magna (Big water flea)): > 1,000 mg/L (48 h)  
Method: OECD 202

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- \* **Dipropylene glycol methylether**  
EC50 (Daphnia magna (Big water flea)): = 1,919 mg/L (48 h)
- \* **ammonia**  
EC50 (Daphnia magna (Big water flea)): = 25.4 mg/L (48 h)
- \* **trizinc bis(orthophosphate)**  
EC50 (Daphnia magna (Big water flea)): > 1,000 mg/L (48 h)
- Fish toxicity**
- \* **1,2-benzisothiazol-3(2H)-one**  
LC50: (Oncorhynchus mykiss (Rainbow trout)): = 2.18 mg/L (96 h)
- \* **3-butoxypropan-2-ol**  
LC50: (Pimephales promelas (fathead minnow)): > 100 mg/L (96 h)
- \* **Dipropylene glycol methylether**  
LC50: (Pimephales promelas (fathead minnow)): > 10,000 mg/L (96 h)
- \* **trizinc bis(orthophosphate)**  
LC50: (Oncorhynchus mykiss (Rainbow trout)): > 1,000 mg/L (96 h)  
LC50: > 5,000 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**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**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).

**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**

not applicable

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

No dangerous good in sense of these transport regulations.

**Sea transport (IMDG)**

No dangerous good in sense of these transport regulations.

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

No dangerous good in sense of these transport regulations.

**14.3 Transport hazard class(es)**

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according to Regulation (EU) 2020/878



411-182-002K  
Version 2.3

HV 182 K (dif. colors)  
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not applicable

**14.4 Packing group**

not applicable

**14.5 Environmental hazards**

Land transport (ADR/RID) not applicable  
Sea transport (IMDG) not applicable

**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)**

not applicable

**Sea transport (IMDG)**

not applicable

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

not applicable

**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**

**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: 115 g/l

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

VOC limit value: 2004/42/IIA(i): 140 g/l (2010)

Maximum VOC content of the product in a ready to use condition: 115 g/L

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

\* **Regulation (EU) No. 528/2012 on biocides**

\* biocide, active substance: reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)

\* biocide, active substance: bronopol (INN)

\* biocide, active substance: 1,2-benzisothiazol-3(2H)-one

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

**Hazard categories / Named dangerous substances**

This product is not classified according to Directive 2012/18/EU.

**National regulations**

Observe in addition any national regulations!

**Water hazard class**

\* **Substance/product listed in the following inventories**

\* Toxic Substances Control Act - US

**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**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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

Aquatic Chronic 3                  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

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: 2.2

replaces revision of: 5 Feb 2026