

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

222-155-001F
Version 4.0

EMD 155 (dif. colors)
Revision date 25 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

222-155-001F EMD 155 (dif. colors)
CHING-EP-ZINC FLAKE PRIMER
COMPONENT I

UFI: F3CR-X045-G000-T36Q

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.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Eye Irrit. 2	H319 Causes serious eye irritation.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



GHS02 GHS07 GHS09

Signal word

Warning

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection/face protection.
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.

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Hazard components for labelling

reaction product: bisphenol-A-(epichlorhydrin)

Supplemental hazard information

not applicable

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 epoxy resin, component I

Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	% [mass]
* 25068-38-6 500-033-5 603-074-00-8	reaction product: bisphenol-A-(epichlorhydrin) Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 Specific concentration limit (SCL) Eye Irrit. 2 H319: >= 5,00 / Skin Irrit. 2 H315: >= 5,00 ATE (dermal): = 23,000 mg/kg ATE (oral): = 15,000 mg/kg	12,5 < 15,0
7440-66-6 231-175-3 030-001-01-9	zinc powder - zinc dust (stabilised) 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)	10,0 < 12,5
107-98-2 203-539-1 603-064-00-3	1-methoxy-2-propanol 01-2119457435-35 Flam. Liq. 3 H226 / STOT SE 3 H336 ATE (dermal): = 13,000 mg/kg ATE (dermal): > 2,000 mg/kg ATE (oral): = 4,016 mg/kg ATE (inhalative): = 36.7 mg/L (4 h)	8,00 < 10,0
1330-20-7 215-535-7 601-022-00-9	o-xylene 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)	7,00 < 8,00
- 905-562-9 -	Reaction mass of ethylbenzene and m-xylene and p-xylene 01-2119555267-33 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	3,00 < 5,00
7779-90-0 231-944-3 030-011-00-6	trizinc bis(orthophosphate) 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
100-41-4 202-849-4 601-023-00-4	ethylbenzene 01-2119489370-35 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Acute Tox. 4 H332 / STOT RE 2 H373 / Aquatic Chronic 3 H412 ATE (dermal): = 15,400 mg/kg ATE (oral): = 3,500 mg/kg	1,00 < 2,00

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 (CO₂), 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 (CO₂), Carbon monoxide, smoke, Nitrogen oxides (NO_x).

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)
107-98-2	1-methoxy-2-propanol	WEL	375 / 560 (-) mg/m ³ (may be absorbed through the skin)
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	WEL	1 / - (-) mg/m ³ (respirable fraction)
100-41-4	ethylbenzene	WEL	441 / 552 (-) mg/m ³ (may be absorbed through the skin)
1330-20-7	o-xylene	WEL	220 / 441 (-) mg/m ³ (may be absorbed through the skin)
13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	WEL	4 / - (-) mg/m ³ (respirable fraction)
13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	WEL	10 / - (-) mg/m ³ (inhalable fraction)

Additional information

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

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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
107-98-2	1-methoxy-2-propanol	DNEL acute inhalative (local)	553.5 mg/m ³
107-98-2	1-methoxy-2-propanol	DNEL long-term dermal (systemic)	50.6 mg/kg
107-98-2	1-methoxy-2-propanol	DNEL long-term inhalative (systemic)	369 mg/m ³
100-41-4	ethylbenzene	DNEL long-term dermal (systemic)	180 mg/kg
100-41-4	ethylbenzene	DNEL long-term inhalative (systemic)	77 mg/m ³
100-41-4	ethylbenzene	DNEL acute inhalative (local)	293 mg/m ³
1330-20-7	o-xylene	DNEL acute dermal, short-term (local)	289 mg/kg
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 ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	DNEL acute dermal, short-term (systemic)	8.33 mg/kg
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	DNEL long-term inhalative (systemic)	12.25 mg/m ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	DNEL acute inhalative (systemic)	12.25 mg/m ³
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 ³
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 ³

PNEC

CAS No.	Substance name	PNEC type	PNEC Value
107-98-2	1-methoxy-2-propanol	PNEC aquatic, intermittent release	100 mg/L
107-98-2	1-methoxy-2-propanol	PNEC sewage treatment plant (STP)	100 mg/L
107-98-2	1-methoxy-2-propanol	PNEC sediment, marine water	4.17 mg/kg
107-98-2	1-methoxy-2-propanol	PNEC soil, freshwater	2.47 mg/kg
107-98-2	1-methoxy-2-propanol	PNEC sediment, freshwater	41.6 mg/kg
107-98-2	1-methoxy-2-propanol	PNEC aquatic, freshwater	10 mg/L
107-98-2	1-methoxy-2-propanol	PNEC aquatic, marine water	1 mg/L
100-41-4	ethylbenzene	PNEC aquatic, intermittent release	0.1 mg/L
100-41-4	ethylbenzene	PNEC sewage treatment plant (STP)	9.6 mg/L
100-41-4	ethylbenzene	PNEC sediment, marine water	1.37 mg/kg

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100-41-4	ethylbenzene	PNEC sediment, freshwater	13.7 mg/kg
100-41-4	ethylbenzene	PNEC aquatic, freshwater	0.1 mg/L
100-41-4	ethylbenzene	PNEC aquatic, marine water	0.01 mg/L
100-41-4	ethylbenzene	PNEC soil, freshwater	2.68 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
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	PNEC aquatic, intermittent release	0.018 mg/L
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	PNEC sewage treatment plant (STP)	10 mg/L
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	PNEC sediment, marine water	0.1 mg/kg
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	PNEC sediment, freshwater	0.996 mg/kg
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	PNEC soil, freshwater	0.196 mg/kg
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	PNEC aquatic, freshwater	0.006 mg/L
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	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
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.

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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	120 °C
Flash point	32 °C
flammability	Flammable liquid and vapour.
Lower explosion limit at 20°C	1 Vol-%
	Source: ethylbenzene
Upper explosion limit at 20°C	13.1 Vol-%
	Source: 1-methoxy-2-propanol
Vapour pressure at 20°C	1.98 mbar
Relative vapour density	not applicable
Density at 20 °C	1.8 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Auto-ignition temperature	270 °C
	Source: 1-methoxy-2-propanol
Decomposition temperature	not determined
Kinematic viscosity at 20 °C	> 270.1 mm ² /s
Dynamic viscosity at 20 °C	> 475.02 mPas
Viscosity	> 60s / 4mm
particle characteristics	not applicable

9.2 Other information

Solid content	77.2 %
solvent content	22.8 %
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.

1-methoxy-2-propanol

LD50: dermal (Rabbit): = 13,000 mg/kg

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

LD50: oral (Rat): = 4,016 mg/kg

LC50: inhalative (Rat): = 36.7 mg/L (4 h)

ethylbenzene

LD50: dermal (Rabbit): = 15,400 mg/kg

LD50: oral (Rat): = 3,500 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)

reaction product: bisphenol-A-(epichlorhydrin)

LD50: dermal (Rabbit): = 23,000 mg/kg

LD50: oral (Rat): = 15,000 mg/kg

trizinc bis(orthophosphate)

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

LC50: inhalative (Rat): > 5.7 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

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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

Toxic to aquatic life with long lasting effects.

o-xylene

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

Algae toxicity

ethylbenzene

ErC50: (Pseudokirchneriella subcapitata): = 4.6 mg/L (72 h)

ErC50: (Pseudokirchneriella subcapitata): = 5.4 mg/L (72 h)

o-xylene

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

Method: OECD 201

reaction product: bisphenol-A-(epichlorhydrin)

ErC50: = 11 mg/L (72 h)

trizinc bis(orthophosphate)

ErC50: > 100 mg/L

Daphnia toxicity

1-methoxy-2-propanol

EC50 (Daphnia magna (Big water flea)): = 23,300 mg/L (48 h)

ethylbenzene

EC50 (Daphnia magna (Big water flea)): = 2.1 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)

reaction product: bisphenol-A-(epichlorhydrin)

EC50 = 1.8 mg/L (48 h)

trizinc bis(orthophosphate)

EC50 (Daphnia magna (Big water flea)): > 1,000 mg/L (48 h)

Fish toxicity

ethylbenzene

LC50: (Pimephales promelas (fathead minnow)): = 12.1 mg/L (96 h)

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 4.2 mg/L (96 h)

Method: OECD 203

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)

reaction product: bisphenol-A-(epichlorhydrin)

LC50: (Leuciscus idus (golden orfe)): = 2 mg/L (96 h)

trizinc bis(orthophosphate)

LC50: (Oncorhynchus mykiss (Rainbow trout)): > 1,000 mg/L (96 h)

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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

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.

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



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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

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: 401 g/l

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

VOC limit value: 2004/42/IIA(j): 500 g/l (2010)
Maximum VOC content of the product in a ready to use condition: 471 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

E2 Hazardous to the aquatic environment in Category Chronic 2

Quantity 1: 200t; Quantity 2: 500t

P5c FLAMMABLE LIQUIDS

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

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

H225	Highly flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

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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.
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.
Skin Irrit. 2	Calculation method.
Skin Sens. 1	Calculation method.
Eye Irrit. 2	Calculation method.
Aquatic Chronic 2	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: 3.0
replaces revision of: 6 Dec 2025