

Safety Data Sheet

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

Article No.: 315 EPOTEX 2K-Epoxy Oel- und Feuchtigkeitssperre
Print date: 26.12.2022 Revision date: 10.12.2022 EN
Version: 8.0 Issue date: 10.12.2022 Page 1 / 12

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

1.1. product identifiers

Article No. (manufacturer/supplier) 315
Trade name/designation EPOTEX 2K-Epoxy Oel- und Feuchtigkeitssperre
MV: 5/2.8 mit 946

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

Relevant identified uses:

Coating material to protecting surfaces

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

Department responsible for information:

laboratory Manager

E-mail (competent person)

1.4. Emergency telephone number

Emergency telephone number 145 (+41 (0)44 251 51 51)

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].

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms



Warning

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
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.
P103 Read carefully and follow all instructions.
P261 Avoid breathing vapours.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to industrial incineration plant.

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Hazard components for labelling

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight \leq 700
Cashell nut shell oil, epoxidized
1,6-hexanediol diglycidyl ether
Bisphenol F epoxy resin

Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Solvent-free formulation, containing the following hazardous substances:

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
216-823-5 1675-54-3 603-073-00-2	01-2119456619-26 reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight \leq 700 Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 Specific concentration limit (SCL): Eye Irrit. 2 H319 \geq 5 / Skin Irrit. 2 H315 \geq 5	40 - 60
500-210-7 68413-24-1	01-2119982994-15 Cashell nut shell oil, epoxidized Skin Sens. 1 H317	15 - 25
240-260-4 16096-31-4	01-2119463471-41 1,6-hexanediol diglycidyl ether Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	10 - 15
500-006-8 9003-36-5	01-2119454392-40 Bisphenol F epoxy resin Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	5 - 10

Additional information

Full text of classification: 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. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of 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

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

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.

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

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

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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, 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.

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

Keep away from 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

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). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

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. Keep away from heat sources, sparks and open flames. 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. When using do not eat, drink or smoke. Personal protection equipment: refer to 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.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

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.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

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Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

not applicable

DNEL:

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

DNEL acute dermal, short-term (systemic), Workers: 8,33 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 8,33 mg/kg bw/day

DNEL acute inhalative (systemic), Workers: 12,25 mg/m³

DNEL long-term inhalative (systemic), Workers: 12,25 mg/m³

DNEL long-term oral (repeated), Consumer: 0,75 mg/kg bw/day

DNEL acute dermal, short-term (systemic), Consumer: 3,571 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 3,571 mg/kg

DNEL acute inhalative (systemic), Consumer: 0,75 mg/m³

DNEL long-term inhalative (systemic), Consumer: 0,75 mg/m³

DNEL short-term oral (systemic), Consumer: 0,75 mg/kg bw/day

1,6-hexanediol diglycidyl ether

EC No. 240-260-4 / CAS No. 16096-31-4

DNEL long-term dermal (local), Workers: 22,6 $\mu\text{g}/\text{cm}^2$

DNEL long-term dermal (systemic), Workers: 2,8 mg/kg bw/day

DNEL long-term inhalative (local), Workers: 0,44 mg/m³

DNEL long-term inhalative (systemic), Workers: 4,9 mg/m³

DNEL long-term oral (repeated), Consumer: 0,83 mg/kg bw/day

DNEL acute dermal, short-term (local), Consumer: 13,6 $\mu\text{g}/\text{cm}^2$

DNEL acute dermal, short-term (systemic), Consumer: 1,7 mg/kg bw/day

DNEL long-term dermal (local), Consumer: 13,6 $\mu\text{g}/\text{cm}^2$

DNEL long-term dermal (systemic), Consumer: 1,7 mg/kg bw/day

DNEL acute inhalative (systemic), Consumer: 2,9 mg/m³

DNEL long-term inhalative (local), Consumer: 0,27 mg/m³

DNEL long-term inhalative (systemic), Consumer: 2,9 mg/m³

DNEL short-term oral (systemic), Consumer: 0,83 mg/kg bw/day

Bisphenol F epoxy resin

EC No. 500-006-8 / CAS No. 9003-36-5

DNEL acute dermal, short-term (local), Workers: 8,3 $\mu\text{g}/\text{cm}^2$

DNEL long-term dermal (systemic), Workers: 104,15 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 29,39 mg/m³

DNEL long-term oral (repeated), Consumer: 6,25 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 62,5 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 8,7 mg/m³

PNEC:

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

PNEC aquatic, freshwater: 0,006 mg/L

PNEC aquatic, marine water: 0,0006 mg/L

PNEC aquatic, intermittent release: 0,018 mg/L

PNEC sediment, freshwater: 0,996 mg/kg

PNEC sediment, marine water: 0,0996 mg/kg

PNEC, soil: 0,196 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

PNEC Secondary Poisoning: 11 mg/kg

1,6-hexanediol diglycidyl ether

EC No. 240-260-4 / CAS No. 16096-31-4

PNEC aquatic, freshwater: 0,0115 mg/L

PNEC aquatic, marine water: 1,15 $\mu\text{g}/\text{L}$

PNEC aquatic, intermittent release: 0,115 mg/L

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PNEC sediment, freshwater: 0,283 mg/kg
PNEC sediment, marine water: 0,283 mg/kg

Bisphenol F epoxy resin
EC No. 500-006-8 / CAS No. 9003-36-5
PNEC aquatic, freshwater: 0,003 mg/L
PNEC sediment, freshwater: 0,294 mg/kg
PNEC sediment, marine water: 0,0294 mg/kg
PNEC, soil: 0,237 mg/kg
PNEC sewage treatment plant (STP): 10 mg/L

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. 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: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

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

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

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

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:	refer to label
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	not applicable
Flammability:	not applicable
Lower and upper explosion limit:	
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	442.36 mm ² /s
Viscosity at 20 °C:	400-600 mPas
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	not applicable

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Density and/or relative density:	
Density at 20 °C:	1.13 g/cm ³
Relative vapour density:	not applicable
particle characteristics:	not applicable
9.2. Other information	
Solid content:	100 weight-%
solvent content:	
Organic solvents:	0 weight-%
Water:	0 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

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

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

oral, LD50, Rat: 11400 mg/kg

dermal, LD50, Rabbit: 23000 mg/kg

1,6-hexanediol diglycidyl ether

oral, LD50, Rat: 2900 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 0,035 mg/L (4 h)

Bisphenol F epoxy resin

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Skin, Rabbit (4 h)

Irritant

eyes, Rabbit

Irritant

Cashell nut shell oil, epoxidized

Skin (4 h)

No irritant effect

eyes

No irritant effect

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Respiratory or skin sensitisation

May cause an allergic skin reaction.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Skin:

No data available

Respiratory system:

No data available

1,6-hexanediol diglycidyl ether

Skin:

No data available

Respiratory system:

No data available

Bisphenol F epoxy resin

Skin, Guinea pig: ; Evaluation Sensitising

Respiratory system:

No data available

Cashell nut shell oil, epoxidized

Skin: ; Evaluation May cause sensitization by skin contact.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Germ cell mutagenicity; Evaluation positive

Method: OECD 471 (Ames test)

Carcinogenicity; Evaluation negative

Method: OECD 453

Rat; oral; 2 years; 7 days per week

Reproductive toxicity

Method: OECD 416

Rat; oral; 540 mg/kg NOEL

Germ cell mutagenicity; Evaluation positive

Method: OECD 476

In vitro gene mutation test on mammalian cells

Germ cell mutagenicity; Evaluation negative

Method: OECD 478

Genetic Toxicology: Rodent Dominant Lethal Test

Carcinogenicity; Evaluation negative

Method: OECD 453

Rat; dermal; 2 years; 5 days per week

Carcinogenicity; Evaluation negative

Method: OECD 453

Mouse; dermal; 2 years; 3 days per week

teratogenicity

Method: OECD 414

Rat, female; >540 mg/kg NOEL

teratogenicity

Method: EPA CFR

Rabbit, female; > 300 mg/kg NOEL

teratogenicity

Method: OECD 414

Rabbit, female; 180 mg/kg NOAEL

1,6-hexanediol diglycidyl ether

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Bisphenol F epoxy resin

Germ cell mutagenicity

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OECD 471 Bacterial Reverse Mutation TestPositivOECD 476 In vitro Mammalian Cell Gene Mutation TestPositivOECD 473
In vitro Mammalian Chromosomal Aberration TestPositivOECD 474 Mammalian Erythrocyte Micronucleus
TestNegativOECD 486 Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivoNegativ

Carcinogenicity

No data available

Reproductive toxicity

Method: OECD 416

Rat; Oral: 540 mg/kg NOEL

teratogenicity

Method: EPA CFR

Rabbit, female; > 300 mg/kg NOEL

In-vitro mutagenicity; Evaluation positive

in-vitro; Evaluation positive

Ames test

Cashell nut shell oil, epoxidized

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure; STOT-repeated exposure

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

1,6-hexanediol diglycidyl ether

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Cashell nut shell oil, epoxidized

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Aspiration hazard

No data available

1,6-hexanediol diglycidyl ether

Aspiration hazard

No data available

Cashell nut shell oil, epoxidized

Aspiration hazard

No data available

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, drowsiness, 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.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

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Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

12.1. Toxicity

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 2 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 1,8 mg/L (48 h)

Fish toxicity, EC50, *Leuciscus idus* (golden orfe): 3,6 mg/L (96 h)

Fish toxicity, EC50, *Selenastrum capricornutum*: 220 mg/L (96 h)

Daphnia toxicity, NOEC, *Daphnia magna* (Big water flea): 0,3 mg/L (21 d)

Algae toxicity, EC50, *Scenedesmus capricornutum*: 9,4 mg/L (72 h)

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 2 mg/L (96 h)

1,6-hexanediol diglycidyl ether

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 30 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50: 47 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50: 23,1 mg/L (48 h)

Bisphenol F epoxy resin

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 2,54 mg/L (96 h)

Daphnia toxicity, EC50: 1,6 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50: 1,8 mg/L (72 h)

Algae toxicity, EC50: 1,8 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, IC50: > 100 mg/L (3 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 2,55 mg/L (48 h)

Algae toxicity, ErC50, *Selenastrum capricornutum*: > 1000 mg/L (72 h)

Method: OECD 201

Cashell nut shell oil, epoxidized

Fish toxicity, LC50, *zebra danio*: > 100 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna*: > 100 mg/L (48 h)

Algae toxicity, EC50, green alga: > 100 mg/L (72 h)

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): > 10000 mg/L (48 h)

DIN 38412 / part 15

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

Bisphenol F epoxy resin

Fish toxicity, LC50: 0,55 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, NOEC: 0,3 mg/L (21 d)

Method: OECD 211

12.2. Persistence and degradability

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Biodegradation: 5 percent (28 d); Evaluation Not readily biodegradable (according to OECD criteria)

Method: OECD 301F

1,6-hexanediol diglycidyl ether

Biodegradation:

No data available

Bisphenol F epoxy resin

Biodegradation: 16 percent (28 d); Evaluation Not readily biodegradable (according to OECD criteria)

Cashell nut shell oil, epoxidized

Biodegradation: 25,6 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301B

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12.3. Bioaccumulative potential

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Distribution coefficient n-octanol/water (log KOW):

No data available

1,6-hexanediol diglycidyl ether

Distribution coefficient n-octanol/water (log KOW):

No data available

Bisphenol F epoxy resin

Distribution coefficient n-octanol/water (log KOW):

No data available

Cashell nut shell oil, epoxidized

Distribution coefficient n-octanol/water (log KOW):

No data available

Bioconcentration factor (BCF)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Bioconcentration factor (BCF): 31

1,6-hexanediol diglycidyl ether

Bioconcentration factor (BCF): 3,57

Bisphenol F epoxy resin

Bioconcentration factor (BCF): 150

12.4. Mobility in soil

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

soil:

No data available

1,6-hexanediol diglycidyl ether

soil:

No data available

Bisphenol F epoxy resin

soil:

No data available

Cashell nut shell oil, epoxidized

soil:

No data 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

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC

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

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

Appropriate disposal / Package Recommendation

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

SECTION 14: Transport information

Safety Data Sheet

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

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No dangerous good in sense of this transport regulation.

- 14.1. **UN number or ID number** not applicable
- 14.2. **UN proper shipping name**
- 14.3. **Transport hazard class(es)** not applicable
- 14.4. **Packing group** not applicable
- 14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant 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

Further information

Land transport (ADR/RID)

Tunnel restriction code -

Sea transport (IMDG)

EmS-No. not applicable

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

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

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

VOC-value (in g/L): 4

National regulations

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.

15.2. **Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
216-823-5 1675-54-3	reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight \leq 700	01-2119456619-26
500-210-7 68413-24-1	Cashell nut shell oil, epoxidized	01-2119982994-15
240-260-4 16096-31-4	1,6-hexanediol diglycidyl ether	01-2119463471-41
500-006-8 9003-36-5	Bisphenol F epoxy resin	01-2119454392-40

SECTION 16: Other information

Full text of classification in section 3

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

Safety Data Sheet

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

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Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects.
Aquatic Chronic 2 / H411 Hazardous to the aquatic environment Toxic to aquatic life with long lasting effects.

Classification procedure

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

Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Chronic 3	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
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
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
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.