

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.03.2017 / 0004

Revision date / version: 07.03.2017 / 0004 Replacing version dated / version: 06.01.2017 / 0003 Valid from: 07.03.2017 PDF print date: 29.03.2017 COSMO EP-201.120

(COSMOFEN AL 1630 Binder)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

COSMO EP-201.120

(COSMOFEN AL 1630 Binder)

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

Relevant identified uses of the substance or mixture:

Adhesive
Sector of use [SU]:
SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against: No information available at pres

1.3 Details of the supplier of the safety data sheet

Weiss Chemie + Technik GmbH & Co.KG, Hansastrasse 2, 35708 Haiger, Germany

Phone: +49(0)2773/815-0. Fax:

msds@weiss-chemie.de, www.weiss-chemie.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement

Eve Irrit. 2 H319-Causes serious eve irritation. 2 H315-Causes skin irritation. Skin Irrit. Skin Sens. H317-May cause an allergic skin reaction. Aquatic H411-Toxic to aquatic life with long lasting

effects.

2.2 Label elements

Chronic

Labeling according to Regulation (EC) 1272/2008 (CLP)



Warning

H319-Causes serious eye irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H411-Toxic to aquatic life with long lasting effects.

P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves and eye protection / face protection. P302+P352-IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.

EUH205-Contains epoxy constituents. May produce an allergic reaction.

Bisphenol F epoxy resin

reaction product bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight <=

1,6-Bis(2,3-epoxypropoxy)hexane

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

3.2 Mixture

| Bisphenol F epoxy resin | |
|---|------------------------|
| Registration number (REACH) | 01-2119454392-40-XXXX |
| Index | |
| EINECS, ELINCS, NLP | 500-006-8 (NLP) |
| CAS | 9003-36-5 |
| content % | 30-50 |
| Classification according to Regulation (EC) 1272/2008 | Eye Irrit. 2, H319 |
| (CLP) | Skin Irrit. 2, H315 |
| • • | Skin Sens. 1, H317 |
| | Aquatic Chronic 2 H411 |

| reaction product bisphenol A-(epichlorhydrin), epoxy | |
|---|-------------------------|
| resin (number average molecular weight <= 700) | 04 0440 450040 00 30000 |
| Registration number (REACH) | 01-2119456619-26-XXXX |
| Index | 603-074-00-8 |
| EINECS, ELINCS, NLP | 500-033-5 (NLP) |
| CAS | 25068-38-6 |
| content % | 10-40 |
| Classification according to Regulation (EC) 1272/2008 | Eye Irrit. 2, H319 |
| (CLP) | Skin Irrit. 2, H315 |
| | Skin Sens. 1, H317 |
| | Aquatic Chronic 2, H411 |

| 1,6-Bis(2,3-epoxypropoxy)hexane | |
|---|-------------------------|
| Registration number (REACH) | 01-2119463471-41-XXXX |
| Index | |
| EINECS, ELINCS, NLP | 240-260-4 |
| CAS | 16096-31-4 |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 | Eye Irrit. 2, H319 |
| (CLP) | Skin Irrit. 2, H315 |
| , | Skin Sens. 1, H317 |
| | Aquatic Chronic 3, H412 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been tak account.

SECTION 4: First aid measures

4.1 Description of first aid measures

our anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. The following may occur:

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dr

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can dev Oxides of carbon Hydrogen chloride

5.3 Advice for firefighters In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slippin

6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform re-6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diato dispose of according to Section 13. ous earth, sawdust) and

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1. 7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.



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Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individ Not to be stored in gangways or stair wells

Store product closed and only in original packing.

Do not store with oxidizing agents.
Under all circumstances prevent penetration into the soil.

Store cool.
Store in a dry place

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| ® | Chemical Name | Calcium c | arbonate | | | | Content %: |
|--|------------------------|-----------|-----------|--|--------------------|--|---------------|
| WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust) | | | WEL-STEL: | | | | |
| | Monitoring procedures: | | | | | | |
| BM | GV: | | | | Other information: | | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Care - Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

the goal of revision.

| Bisphenol F epoxy re | esin | | | | | |
|----------------------------|--|--------------------------------|----------------|------------|-----------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descri ptor | Valu e | Unit | Note |
| | Environment - freshwater | | PNEC | 0,00 3 | mg/l | |
| | Environment - marine | | PNEC | 0,00 03 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,02 54 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,29 4 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,02 94 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,23 7 | mg/kg dw | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 6,25 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 62,5 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 8,7 | mg/m3 | |
| Industrial / commercial | Human - inhalation | Long term, systemic effects | DNEL | 29,3 9 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 0,00 83 | mg/cm 2 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 104, 15 | mg/kg bw/day | |

| reaction product bisp | reaction product bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700) | | | | | | | |
|-----------------------|---|---------------------------------|----------------|------------|-----------------|------|--|--|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descri ptor | Valu e | Unit | Note | | |
| | Environment - freshwater | | PNEC | 0,00 3 | mg/l | | | |
| | Environment - marine | | PNEC | 0,00 03 | mg/l | | | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,01 8 | mg/l | | | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | | | |
| | Environment - sediment, freshwater | | PNEC | 0,5 | mg/kg dw | | | |
| | Environment - sediment, marine | | PNEC | 0,5 | mg/kg dw | | | |
| | Environment - soil | | PNEC | 0,05 | mg/kg dw | | | |
| | Environment - oral (animal feed) | | PNEC | 11 | mg/kg | | | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 3,57 1 | mg/kg bw/day | | | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 0,75 | mg/kg bw/day | | | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,75 | mg/kg bw/day | | | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,75 | mg/m3 | | | |

| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 0,75 | mg/m3 | |
|------------------------|--------------------|---------------------------------|------|-----------|-----------------|--|
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 8,33 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 12,2 5 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 8,3 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 12,3 | mg/m3 | |

| Area of application | Exposure route / | Effect on | Descri | Valu | Unit | Note |
|---------------------|------------------------|---------------------------------|--------|------|------------|------|
| •• | Environmental | health | ptor | е | | |
| | compartment | | | | | |
| | Environment - | | PNEC | 0,01 | mg/l | |
| | freshwater | | | 15 | | |
| | Environment - | | PNEC | 0,00 | mg/l | |
| | marine | | | 115 | | |
| | Environment - | | PNEC | 0,11 | mg/l | |
| | water, sporadic | | | 5 | | |
| | (intermittent) release | | | | | |
| | Environment - | | PNEC | 1 | mg/l | |
| | sewage treatment | | | | | |
| | plant | | | | | |
| | Environment - | | PNEC | 0,28 | mg/kg | |
| | sediment, freshwater | | | 3 | dw | |
| | Environment - | | PNEC | 0,02 | mg/kg | |
| | sediment, marine | | | 83 | dw | |
| | Environment - soil | | PNEC | 0,22 | mg/kg | |
| _ | | 01 | BNE | 3 | dw | |
| Consumer | Human - dermal | Short term, | DNEL | 1,7 | mg/kg | |
| ^ | | systemic effects | DNFL | | bw/day | |
| Consumer | Human - inhalation | Short term, | DNEL | 2,9 | mg/m3 | |
| Consumer | Human - oral | systemic effects Short term. | DNFL | 0.83 | | |
| Consumer | Human - orai | | DNEL | 0,83 | mg/kg | |
| Consumer | Human - dermal | systemic effects Short term. | DNEL | 0.01 | bw/day | |
| Consumer | Human - dermai | local effects | DNEL | 36 | mg/cm 2 | |
| Consumer | Human - dermal | Long term. | DNEL | 1.7 | mg/kg | |
| Consumer | numan - dermai | systemic effects | DINEL | 1,7 | bw/dav | |
| Consumer | Human - inhalation | Long term. | DNEL | 2.9 | mg/m3 | |
| Consumer | riuman - iimalation | systemic effects | DINEL | 2,3 | mg/ms | |
| Consumer | Human - oral | Long term. | DNEL | 0.83 | mg/kg | |
| Consumer | riuman - orai | systemic effects | DINEL | 0,00 | bw/dav | |
| Consumer | Human - dermal | Long term, | DNEL | 0,01 | mg/cm | |
| Concumor | Traman donna | local effects | 5.122 | 36 | 2 | |
| Consumer | Human - inhalation | Long term, | DNEL | 0,27 | mg/m3 | |
| Concumor | Traman minaration | local effects | 5.122 | 0,2. | g/c | |
| Workers / | Human - inhalation | Short term. | DNEL | 4.9 | mg/m3 | |
| employees | | systemic effects | | .,. | | |
| Workers / | Human - dermal | Short term. | DNEL | 0.02 | mg/cm | |
| employees | | local effects | | 26 | 2 | |
| Workers / | Human - dermal | Long term, | DNEL | 2.8 | mg/kg | |
| employees | | systemic effects | | ~ | bw/day | |
| Workers / | Human - inhalation | Long term, | DNEL | 4.9 | mg/m3 | |
| employees | | systemic effects | | .,- | | |
| Workers / | Human - dermal | Long term, | DNEL | 0.02 | mg/cm | |
| employees | | local effects | | 26 | 2 | |
| Workers / | Human - inhalation | Long term. | DNEL | 0.44 | mg/m3 | |
| employees | | local effects | · | " | 3 - | |

| Calcium carbonate | | | | | | | | |
|------------------------|--|--------------------------------|----------------|-----------|-------|------|--|--|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descri ptor | Valu e | Unit | Note | | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | | | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m3 | | | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 1,06 | mg/m3 | | | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m3 | | | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 4,26 | mg/m3 | | | |

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents'

8.2.2 Individual protection measures, such as personal protective equipment General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374). Recommended

Safety gloves made of fluorocarbon rubber (EN 374).
Protective nitrile gloves (EN 374)

Minimum layer thickness in mm

Permeation time (penetration time) in minutes: >= 240

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).



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Respiratory protection: Normally not necessary.

If air supply is not sufficient, wear protective breathing apparatus.

Filter A P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and

degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested

before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed

8.2.3 Environmental exposure controls

No information available at present

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Physical state: Pastelike, Liquid
Colour: Beige Characteristic Odour: Odour threshold: Not determined pH-value:
Melting point/freezing point:
Initial boiling point and boiling range: n.a. Not determined Flash point: n.a. Not determined Evaporation rate: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): n.a. Not determined Not determined Not determined Not determined ~1,45 g/cm3 (20°C) Density: Bulk density: Solubility(ies):
Water solubility:
Partition coefficient (n-octanol/water):
Auto-ignition temperature: Not determined Insoluble Not determined Not determined Decomposition temperature: Not determined

Viscosity:
Explosive properties:
Oxidising properties:

9.2 Other information Miscibility: Fat solubility / solvent: Conductivity: Not determined Not determined Not determined Surface tension: Not determined Solvents content Not determined

SECTION 10: Stability and reactivity

Not determined Product is not explosive.

10.1 ReactivityThe product has not been tested.

10.2 Chemical stabilityStable with proper storage and handling.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

See also section 7. Strong heat

10.5 Incompatible materials

See also section 7.
Avoid contact with strong oxidizing agents.
Avoid contact with strong alkalis.
Avoid contact with strong acids.

10.6 Hazardous decomposition products

See also section 5.2 No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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| (COOMOTEN | | |
|-----------|------|--|
| | | |
| | | |

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|---------------------------------------|--------------|-------|------|--------------|-------------|--------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |

| | | n.d.a. |
|--|--|--------------|
| | | n.d.a. |
| | | n.d.a. |
| | | |
| | | |
| | | n.d.a. |
| | | |
| | | |
| | | n.d.a. |
| | | n.d.a. |
| | | Classificati |
| | | on |
| | | according |
| | | to |
| | | calculation |
| | | procedure. |
| | | |

| Bisphenol F epoxy res Toxicity / effect | Endpo | Value | Unit | Organis | Test method | Notes |
|--|-------|--------|------|---------|-------------|-------------|
| • | int | | | m | | |
| Acute toxicity, by oral | LD50 | >10000 | mg/k | Rat | | |
| route: | | | g | | | |
| Acute toxicity, by | LD50 | >2000 | mg/k | Rabbit | | |
| dermal route: | | | g | | | |
| Skin | | | | Rabbit | | Irritant |
| corrosion/irritation: | | | | | | |
| Serious eye | | | | Rabbit | | Irritant |
| damage/irritation: | | | | | | |
| Respiratory or skin | | | | Guinea | | Sensitising |
| sensitisation: | | | | pig | | (skin |
| | | | | | | contact) |

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|---|--------------|-------|-------------------|--------------|---|-----------------------|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/k g | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/k g | Rabbit | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosio n) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosio n) | Irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Sensitisi |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Positive |
| Carcinogenicity: | | | | Rat | OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAE L | 50 | mg/k g bw/d | | | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAE L | 100 | mg/k g bw/d | | | |
| Symptoms: | | | | | | diarrhoe weight lo |

| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
|---------------------------------------|--------------|-------|-------------|--------------|---|---|
| Acute toxicity, by oral route: | LD50 | 2900 | mg/k g | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/k g | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 0,035 | mg/l/ 4h | Rat | · | Maximum achievable concentra on. |
| Skin corrosion/irritation: | | | | Rabbit | | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Sensitising (skin contact) |

| Calcium carbonate | | | | | | |
|------------------------------------|--------------|-------|-------------|--------------|---|--------------------------|
| Toxicity / effect | Endpo int | Value | Unit | Organis m | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/k g | Rat | OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/k g | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >3 | mg/l/ 4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosio n) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosio n) | Not irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitizisin g |



| B) Page 4 of 6 | | | | | | | | 12.1. Toxicity to | EC50 | 48h | 1,1 | mg/l | Daphnia | OECD 202 | I |
|--|-----------------------------------|----------------------|-------------------------|-------------------|--------------------------------|--|---------------------------------------|--|-------------------------|------------------|----------------|------|--------------------------------|---|---|
| Safety data sheet a Revision date / vers Replacing version of Valid from: 07.03.2 | sion: 07.03.20 dated / version | 17 / 000 | 14 | | 6, Annex II | | | daphnia: | EC30 | 4011 | 1,1 | mg/i | magna | (Daphnia sp. Acute Immobilisati on Test) | |
| PDF print date: 29. COSMO EP-201.12 | 03.2017 | | | | | | | 12.1. Toxicity to algae: | EC50 | 72h | 9,4 | mg/l | Selenastrum capricornut | U.S. EPA ECOTOX | |
| (COSMOFEN AL 1 | 630 Binder) | | | | | | | 12.2. Persistence and | | 28d | 5 | % | um | Database OECD 301 F (Ready | Not readily biodegrada |
| Germ cell mutagenicity: | | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative | degradability: | | | | | | Biodegradab ility - Manometric Respirometr | ble |
| Germ cell mutagenicity: | | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative | 12.3. Bioaccumulative potential: | Log Pow | | 3,8 | | | y Test) | |
| Germ cell mutagenicity: | | | | | | OECD 476 (In Vitro | Negative | 1,6-Bis(2,3-epoxy) Toxicity / effect | oropoxy)hexa Endpoin | ne Tim | Valu | Unit | Organism | Test | Notes |
| | | | | | | Mammalian Cell Gene Mutation Test) | No | 12.1. Toxicity to fish: | t LC50 | e 96h | e 30 | mg/l | Oncorhynch us mykiss | method OECD 203 (Fish, Acute | |
| Carcinogenicity: | | | | | | | indications of such an | 12.1. Toxicity to | EC50 | 48h | 47 | mg/l | Daphnia | Toxicity Test) OECD 202 | |
| Reproductive toxici | ty: NOE | L 10 | 000 | mg/k g bw/d | Rat | OECD 422 (Combined Repeated Dose | effect. | daphnia: | | | | | magna | (Daphnia sp. Acute Immobilisati | |
| | | | | bw/u | | Tox. Study with | | 12.1. Toxicity to algae: | LC50 | 48h | 23,1 | mg/l | | on Test) | |
| Specific target orga | าก | | | | | Reproduction/De velopm. Tox. Screening Test) | No | 12.2. Persistence and degradability: | | 28d | 71 | % | | OECD 301 D (Ready Biodegradab ility - Closed | |
| toxicity - single exposure (STOT-S Specific target orga | | | | | | | indications of such an effect. | 12.3. Bioaccumulative | BCF | | 3,57 | | | Bottle Test) | calculated value |
| toxicity - repeated exposure (STOT-R | | | | | | | indications of such an effect. | 12.3. Bioaccumulative potential: | Log Pow | | 0,82 2 | | | | |
| Aspiration hazard: Symptoms: | | | | | | | No No indications of such an | 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB |
| Specific target orga | n NOA | E 10 | 000 | mg/k | Rat | OECD 422 | effect. | Toxicity to bacteria: | IC50 | 28d | >10 | mg/l | activated sludge | | substance |
| toxicity - repeated exposure (STOT-R | / - repeated | | | | | Calcium carbonat | | | | | | | | | |
| oral: | | | | | | Tox. Study with the Reproduction/De | | Toxicity / effect 12.1. Toxicity to | Endpoin t LC50 | Tim e 96h | Valu e | Unit | Organism | Test method OECD 203 | Notes No |
| Specific target orgatoxicity - repeated exposure (STOT-Rinhalat.: | C | E 0, | 212 | mg/l | Rat | velopm. Tox. Screening Test) OECD 413 (Subchronic Inhalation Toxicity - 90-Day | | fish: | LC50 | 9011 | | | Oncorhynch us mykiss | (Fish, Acute Toxicity Test) | observation with saturated solution of test |
| militate. | SEC | TION | 12: E | cologi | cal inforr | Study) | | 12.1. Toxicity to daphnia: | EC50 | 48h | | | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisati on Test) | material. No observation with saturated solution of |
| Possibly more infor | | vironmer | ital effects | s, see Sec | tion 2.1 (classif | ication). | | 12.1. Toxicity to | EC50 | 72h | >14 | mg/l | Desmodesm | OECD 201 | test material. |
| (COSMOFEN AL 1 Toxicity / effect | 630 Binder) Endpoin | Tim e | Valu e | Unit | Organism | Test method | Notes | algae: | 2000 | 7211 | 214 | mgri | us subspicatus | (Alga, Growth Inhibition | |
| 12.1. Toxicity to fish: | | | | | | metriou | n.d.a. | 12.1. Toxicity to algae: | NOEC/N OEL | 72h | 14 | mg/l | Desmodesm us subspicatus | Test) OECD 201 (Alga, Growth | |
| daphnia: 12.1. Toxicity to | | | | | | | n.d.a. | | | | | | Subspicatus | Inhibition Test) | |
| algae: 12.2. Persistence and degradability: | | | | | | | n.d.a. | 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic |
| 12.3. Bioaccumulative potential: 12.4. Mobility in | | | | | | | n.d.a. | 12.3. | | | | | | | substances Not to be |
| soil: 12.5. Results of PBT and vPvB | | | | | | | n.d.a. | Bioaccumulative potential: 12.4. Mobility in soil: | | | | | | | expected n.a. |
| assessment 12.6. Other adverse effects: | | | | | | | n.d.a. | 12.5. Results of PBT and vPvB assessment | | _ | | | | | No PBT substance, No vPvB |
| Bisphenol F epox Toxicity / effect | y resin Endpoin | Tim | Valu | Unit | Organism | Test | Notes | Toxicity to bacteria: | EC50 | 3h | >10 00 | mg/l | activated sludge | OECD 209 (Activated | substance |
| 12.1. Toxicity to fish: | LC50 | 96h 48h | 2 2,55 | mg/l | Daphnia | method | | | | | | | | Sludge, Respiration Inhibition Test | |
| daphnia: 12.1. Toxicity to daphnia: | EC50 | 24h | 2 | mg/l | magna | | | | | | | | | (Carbon and Ammonium | |
| 12.1. Toxicity to algae: | LC50 | 72h | 1,8 | mg/l | Scenedesn us subspicatus | | | Toxicity to bacteria: | NOEC/N OEL | 3h | 100 | mg/l | activated sludge | Oxidation)) OECD 209 (Activated | |
| 12.2. Persistence and degradability: | | | | | | | Not readily biodegrada ble | | | | | | | Sludge, Respiration Inhibition | |
| degradability. | | | | | | | | | | | | | | Test | |
| reaction product I | eisphenol A- | epichlor Tim e | hydrin), o Valu e | | in (number av Organism | Test method | eight <= 700) Notes | | | | | | | (Carbon and Ammonium | |



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(COSMOFEN AL 1630 Binder)

| (00011101 211712 1 | | | | | | | |
|--------------------|---------------|-----|------------|--------------|--------------------|---|--------------------------------|
| Other organisms: | EC50 | 21d | >10 00 | mg/k g dw | | OECD 208 (Terrestrial Plants, Growth Test) | Avena sativa |
| Other organisms: | EC50 | 21d | >10 00 | mg/k g dw | | OECD 208 (Terrestrial Plants, Growth Test) | Glycine max |
| Other organisms: | EC50 | 21d | >10 00 | mg/k g dw | | OECD 208 (Terrestrial Plants, Growth Test) | Lycopersic on esculentum |
| Other organisms: | EC50 | 28d | >10 00 | mg/k g dw | | OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test) | |
| Other organisms: | NOEC/N OEL | 14d | 100 0 | mg/k g dw | Eisenia foetida | OECD 207 (Earthworm, Acute Toxicity Tests) | |
| Other organisms: | NOEC/N OEL | 21d | 100 0 | mg/k g dw | | OECD 208 (Terrestrial Plants, Growth Test) | Glycine max |
| Other organisms: | NOEC/N OEL | 21d | 100 0 | mg/k g dw | | OECD 208 (Terrestrial Plants, Growth Test) | Avena sativa |
| Other organisms: | NOEC/N OEL | 21d | 100 | mg/k g dw | | OECD 208 (Terrestrial Plants, Growth Test) | Glycine max |
| Other organisms: | NOEC/N OEL | 21d | 100 0 | mg/k g dw | | OECD 208 (Terrestrial Plants, Growth Test) | Lycopersic on esculentum |
| Other organisms: | NOEC/N OEL | 28d | 100 0 | mg/k g dw | | OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test) | |
| Water solubility: | | | 0,01 66 | g/l | | OECD 105 (Water Solubility) | |
| Water solubility: | | | 0,01 66 | g/l | | OECD 105 (Water Solubility) | 20°C |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

allocated under certain circumstances. (2014/955/EU)

80 40 99 waste adhesives and sealants containing organic solvents or other hazardous substances
20 01 27 paint, inks, adhesives and resins containing hazardous substances
Recommendation:
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.
E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

environmentally hazardous

General statements

14.1. UN numbe

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

14.3. Transport hazard class(es): 14.4. Packing group: Classification code: 9 III

LQ: 14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code: Transport by sea (IMDG-code)

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

14.3. Transport hazard class(es): 14.4. Packing group: F-A, S-F EmS: Marine Pollutant:

14.5 Environmental hazards Transport by air (IATA) 14.2. UN proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (EPOXY RESIN)

14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards:

environmentally hazardous

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

Observe youth employment law (German regulation).

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Employee training in handling dangerous goods is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|--|
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Skin Sens. 1, H317 | Classification according to calculation procedure. |
| Aquatic Chronic 2, H411 | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). 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. H412 Harmful to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation Skin Irrit. - Skin irritation Skin Sens - Skin sensitization

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

AC Article Categories

Article Categories
acc., acc. to according, according to
ACGIH
American Conference of Governmental Industrial Hygienists
ADR
Accord européen relatif au transport international des marchandises Dangereuses par Route (=
European Agreement concerning the International Carriage of Dangerous Goods by Road)
ACEL
Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approximately Article number

approx. Art., Art. no ATE BAM

Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and

Testing, Ge BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

and Safety. BCF

Germany) Bioconcentration factor

Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK) BOD

BSEF

bw CAS

Biological monitoring guidance value (EH4U, UK)
Biochemical oxygen demand
Bromine Science and Environmental Forum
body weight
Chemical Abstracts Service
Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants CEC Coor and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC

Collaborative International Pesticides Analytical Council
Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, do packaging of substances and mixtures) carcinogenic, mutagenic, reproductive toxic

CLP labelling a

COD CTFA Chemical oxygen demand Cosmetic, Toiletry, and Fragrance Association

DMFI

DNEL DOC DT50

Cosmeter, Toiletry, and Fragrance Association
Derived Minimum Effect Level
Derived No Effect Level
Dissolved organic carbon
Dwell Time - 50% reduction of start concentration
Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for

Welding and Allied Processes)

DVS

dry weight for example (abbreviation of Latin 'exempli gratia'), for instance

weldin dw e.g. EC ECHA EEA EEC European Community European Chemicals Agency

European Economic Area European Economic Community



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(COSMOFEN AL 1630 Binder)

European Inventory of Existing Commercial Chemical Substances European List of Notified Chemical Substances

EINECS ELINCS

European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC

Environmental Release Categories
Exposure scenario
et cetera ES etc. EU European Union EWC European Waste Catalogue Fax. Fax number

gen. GHS

Fax number general Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential Hen's Egg Test - Chorionallantoic Membrane Halocarbon Global Warming Potential GWP HET-CAM HGWP International Agency for Research on Cancer International Air Transport Association Intermediate Bulk Container International Bulk Chemical (Code) IARC IATA IBC IBC (Code)

IC Inhibitory concentration
IMDG-code International Maritime Code for Dangerous Goods

including, inclusive International Uniform ChemicaL Information Database incl. IUCLID

LC LC50 LCLo lethal concentration
lethal concentration 50 percent kill
lowest published lethal concentration

LD Lethal Dose of a chemical LD50

Lethal Dose of a chemical Lethal Dose, 50% kill Lethal Dose Low Lowest Observed Adverse Effect Level Lowest Observed Effect Concentration Lowest Observed Effect Level LDS0 LDL0 LOAEL LOEC

LOEL LQ Limited Quantities

International Convention for the Prevention of Marine Pollution from Ships not applicable MARPOL

n.a. n.av. not available not checked n.c. no data available

n.d.a. NIOSH National Institute of Occupational Safety and Health (United States of America)

NIOSH NOAEC NOAEL NOEC NOEL ODP OECD National Institute of Occupational Safety and H
No Observed Adverse Effective Concentration
No Observed Adverse Effect Level
No Observed Effect Concentration
No Observed Effect Level
Ozone Depletion Potential

Organisation for Economic Co-operation and Development

organic
polycyclic aromatic hydrocarbon
persistent, bioaccumulative and toxic org. PAH PBT Chemical product category

PC PE PNEC

Polyethylene
Predicted No Effect Concentration
Photochemical ozone creation potential
parts per million

POCP ppm PROC Process category Polytetrafluorethylene

Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No REACH REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telebohone

Tel. Telephone ThOD

TOC TRGS UN RTDG

Telephone
Theoretical oxygen demand
Total organic carbon
Technische Regelen für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
United Nations Récommendations on the Transport of Dangerous Goods
Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VbF VOC

VorC Volatile organic compounds

VPVB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they not meant to quarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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