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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.09.2023 Version number 34 Revision: 22.09.2023

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

· Product identifier

· Trade name ombran flex - Komponente B

· Relevant identified uses of the substance or mixture and

No further relevant information available. uses advised against

· Application of the substance

Polyurethane-sealent / the mixture

· Details of the supplier of the safety data sheet

MC-Bauchemie Müller GmbH & Co. KG · Manufacturer/Supplier:

> Am Kruppwald 1-8 D-46238 Bottrop Tel.: +49(0)2041-101-0 Fax.: +49(0)2041-101-400 E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG Hagackerstr. 10 CH-8953 Dietikon Tel.: +44-7400510 Fax: +44-7400533

· Informing department: msds@mc-bauchemie.de

2 Hazards identification

· Classification of the substance or mixture

Acute Tox. 5 H333 May be harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.

Lact. H362 May cause harm to breast-fed children.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to the lung through prolonged or repeated exposure.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· Label elements

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms









GHS05 GHS07 GHS08

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· Signal word

Danger

· Hazard-determining

components of labelling: diphenylmethanediisocyanate,isomeres and homologues

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

diphenylmethane-4,4'-di-isocyanante diphenylmethane-2,4'-diisocyanate

· Hazard statements

May be harmful if inhaled. Causes skin irritation. Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer. Route of exposure: Inhalation.

May cause harm to breast-fed children.

May cause respiratory irritation.

May cause damage to the lung through prolonged or repeated

exposure.

Very toxic to aquatic life with long lasting effects.

· Precautionary statements

Do not breathe dusts or mists.

Avoid contact during pregnancy/while nursing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed.

· Other hazards

· Results of PBT and vPvB assessment

· PBT:

85535-85-9 chloroalkanes (C=14-17)

· vPvB:

85535-85-9 chloroalkanes (C=14-17)

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

• **Description:** Mixture consisting of the following components.

| · Dangerous | components: | |
|-------------|---|--------|
| 85535-85-9 | chloroalkanes (C=14-17) | 30-60% |
| | Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362 PBT; vPvB | |
| 9016-87-9 | diphenylmethanediisocyanate,isomeres and homologues | 30-60% |
| | Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |

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| | (Co | ontd. of page 2) |
|--------------|--|------------------|
| 2530-83-8 | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | ≥3-<10% |
| | Eye Dam. 1, H318; Acute Tox. 5, H313 | |
| 101-68-8 | diphenylmethane-4,4'-di-isocyanante | ≥1-<1.5% |
| | Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |
| 5873-54-1 | diphenylmethane-2,4'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | ≥0.1-<1% |
| ·SVHC | | |
| 85535-85-9 | chloroalkanes (C=14-17) | |
| · Additional | information For the wording of the listed hazard phrases refer to se | ction 16. |

4 First aid measures

· Description of first aid measures

• General information Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

After inhalation
After skin contact
After eye contact
After eye contact
Supply fresh air; consult doctor in case of symptoms.
Instantly wash with water and soap and rinse thoroughly.
Rinse opened eye for several minutes under running water.

Seek medical treatment.

· After swallowing Call a doctor immediately.

· Information for doctor

 Most important symptoms and effects, both acute and

delayed No further relevant information available.

Indication of any immediate medical attention and special

treatment needed No further relevant information available.

5 Firefighting measures

Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

· Special hazards arising from

the substance or mixture

No further relevant information available.

· Advice for firefighters

· Protective equipment: Put on breathing apparatus.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Not required.

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• Environmental precautions: Prevent material from reaching sewage system, holes and cellars.

· Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

· Handling

· Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection

against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage

Requirements to be met by

storerooms and containers: No special requirements.

Information about storage in

one common storage facility: Not required.

· Further information about

storage conditions: Keep container tightly sealed.

· Storage class 10

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· Additional information about

design of technical systems: No further data; see section 7.

· Control parameters

· Components with critical values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate,isomeres and homologues

WEL (Great Britain) Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m3

Sen; as -NCO

101-68-8 diphenylmethane-4,4'-di-isocyanante

PEL (USA) Ceiling limit: 0.2 mg/m³, 0.02 ppm

REL (USA) Long-term value: 0.05 mg/m³, 0.005 ppm

Ceiling limit: 0.2* mg/m³, 0.02* ppm

*10-min

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|-------------------------------|---|---------------|
| ` ′ | Long-term value: 0.005 ppm | |
| WEL (Great Britain) | Short-term value: 0.07 mg/m³ | |
| | Long-term value: 0.02 mg/m³ Sen; as -NCO | |
| 5873-54-1 dinhenyl | methane-2,4'-diisocyanate | |
| • | Short-term value: 0.07 mg/m³ | |
| WEE (Grout Britain) | Long-term value: 0.02 mg/m³ | |
| | Sen; as -NCO | |
| DNELs | | |
| 9016-87-9 diphenyli | methanediisocyanate,isomeres and homologues | |
| Inhalative DNEL 0.0 | 05 mg/m³ (ArL) | |
| • • | ethane-4,4'-di-isocyanante | |
| | mg/kg bw/day (Ark) | |
| Inhalative DNEL 0.0 | - , , | |
| | methane-2,4'-diisocyanate | |
| Inhalative DNEL 0.0 | 05 mg/m³ (ArL) | |
| PNECs | | |
| | methanediisocyanate,isomeres and homologues | |
| PNEC 1 mg/l (Sewa | , | |
| 0.1 mg/l (Mev | v) | |
| 1 mg/l (Suw) | | |
| PNEC 1 mg/kg dwt | • | |
| <u> </u> | ethane-4,4'-di-isocyanante | |
| PNEC 1 mg/l (Sewa | - | |
| 0.1 mg/l (Mev | v) | |
| 1 mg/l (Suw) | (D. II) | |
| PNEC 1 mg/kg dwt | • | |
| • | methane-2,4'-diisocyanate | |
| PNEC 1 mg/l (Sewa | , | |
| 0.1 mg/l (Mev 1 mg/l (Suw) | v) | |
| PNEC 1 mg/kg dwt | (Rad) | |
| | | |
| - | ological limit values: | |
| • | ethane-4,4'-di-isocyanante | |
| BIVIGV (Great Britain | 1 µmol creatinine/mol Medium: urine | |
| | Sampling time: At the end of the period od exposure | |
| | Parameter: isocyanate-derived diamine | |

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5873-54-1 diphenylmethane-2,4'-diisocyanate

BMGV (Great Britain) 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

The lists that were valid during the compilation were used as basis. · Additional information:

· Exposure controls

· Personal protective equipment

· General protective and

hygienic measures Keep away from foodstuffs, beverages and food.

> Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Breathing equipment: Respiratory protection is required at inadequately ventilated

> workplaces and during spray processing. Fresh air masks or combination filters A2-P2 are recommended for short-term work.

· Protection of hands: Conditionally suitable materials for protective gloves; EN 374-3:

Nitrile rubber - NBR: Thickness ≥ 0.35mm.

Only suitable for splash protection. Only suitable for short-term exposure. In case of contamination, the protective gloves must be

changed immediately. Nitrile rubber, NBR

Material of gloves

Penetration time of glove

material

The exact breakthrough time must be obtained from the protective

glove manufacturer and must be observed.

Eye protection: Safety glasses

Tightly sealed safety glasses.

· Body protection: Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid Colour: **Black**

Characteristic · Smell: · pH-value: Not determined.

· Change in condition

Melting point/freezing point: Not determined

Not applicable

Initial boiling point and boiling range: 190 °C

110 °C · Flash point:

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| | | (Contd. of page |
|--|----------------------------------|-----------------|
| · Auto-ignition temperature: | 420 °C | |
| · Self-inflammability: | Product is not selfigniting. | |
| Explosive properties: | Product is not explosive. | |
| Steam pressure: | Not determined. | |
| Density at 20 °C | 1.19 g/cm³ | |
| Solubility in / Miscibility with Water: | Not miscible or difficult to mix | |
| · Viscosity: dynamic at 20°C: kinematic: | 1276 mPas Not determined. | |
| · Other information | | |

10 Stability and reactivity

Reactivity No further relevant information available.

· Chemical stability

Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous

reactions

Reacts with amines

· Conditions to avoid · Incompatible materials: No further relevant information available. No further relevant information available.

· Hazardous decomposition

No dangerous decomposition products known products:

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

| · LD/LC50 | values tha | t are relevant for classification: |
|------------|------------|---|
| 9016-87-9 | diphenyli | methanediisocyanate,isomeres and homologues |
| Oral | LD50 | >10000 mg/kg (Rat) |
| Dermal | LD50 | >5000 mg/kg (Rab) |
| Inhalative | LC50/4 h | ~450 mg/l (Rat) |
| 2530-83-8 | [3-(2,3-ep | oxypropoxy)propyl]trimethoxysilane |
| Oral | LD50 | 8030 mg/kg (rat) |
| Dermal | LD50 | 4248 mg/kg (rabbit) |

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101-68-8 diphenylmethane-4,4'-di-isocyanante

Oral LD50 >10000 mg/kg (rat) Dermal LD50 >9400 mg/kg (rabbit)

· Primary irritant effect:

· Skin corrosion/irritation Irritant for skin and mucous membranes.

· Serious eye damage/irritation Irritant effect.

· Respiratory or skin

sensitisation Sensitization possible by inhalation.

Sensitization possible by skin contact.

· Additional toxicological

information: The product shows the following dangers according to the

calculation method of the General EC Classification Guidelines for

Preparations as issued in the latest version:

Harmful Irritant

CMR effects (carcinogenity, mutagenicity and toxicity for

reproduction) Carc. 2, Lact.

12 Ecological information

· Toxicity

· Aquatic toxicity:

| 2520 | 00 | 0 [| (2.2 | enavynranavy | ٠١. |
|------|----|-----|------|--------------|-----|
| • | | | - | | |

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

LC50/96h | 55 mg/l (Cyp)

EC50/48h | 473 mg/l (Daphnia magna)

ErC50/72h | 255 mg/l (Scenedesmus subspicatus)

101-68-8 diphenylmethane-4,4'-di-isocyanante

EC50/24h >1000 mg/l (Daphnia magna) >1000 mg/l (Brachydanio rerio) LC50/96h NOEC >1000 mg/l (Eisenia foetida)

>10 mg/l (Daphnia magna)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:

· Bioaccumulative potential No further relevant information available. · Mobility in soil No further relevant information available.

Additional ecological information:

· General notes: Do not allow product to reach ground water, water bodies or

sewage system.

Danger to drinking water if even small quantities leak into soil.

Results of PBT and vPvB assessment

· PBT:

85535-85-9 chloroalkanes (C=14-17)

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· vPvB:

85535-85-9 chloroalkanes (C=14-17)

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation Must not be disposed of together with household garbage. Do not

allow product to reach sewage system.

Uncleaned packagings:

• Recommendation: Non contaminated packagings can be used for recycling.

| 4 Transport information | | |
|---|-----------------|--|
| · UN-Number · ADR, ADN, IMDG, IATA | Void | |
| · UN proper shipping name · ADR, ADN, IMDG, IATA | Void | |
| · Transport hazard class(es) | | |
| · ADR, ADN, IMDG, IATA | | |
| Class | Void | |
| · Packing group | | |
| · ADR, IMDG, IATA | Void | |
| · Environmental hazards: | | |
| · Marine pollutant: | No | |
| · Special precautions for user | Not applicable. | |
| · Transport in bulk according to Ann | ex II of | |

Not applicable.

Void

15 Regulatory information

Marpol and the IBC Code

· UN "Model Regulation":

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous

substances - ANNEX I None of the ingredients is listed.

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- · National regulations
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

85535-85-9 chloroalkanes (C=14-17)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Department issuing data

specification sheet: Environment protection department.

· Contact:

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International

Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 5: Acute toxicity – Category 5 Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - Category 2

Lact.: Reproductive toxicity - effects on or via lactation

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard -Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

* * Data compared to the previous version altered.