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

Printing date 30.11.2021 Version number 15 Revision: 30.11.2021

### 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:

Emergency telephone

number:

Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +48612864565

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.

STOT SE 3 H335 May cause respiratory irritation.

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

Route of exposure: Inhalation.

· Label elements

· GHS label elements The product is classified and labelled according to the Globally

Harmonised System (GHS).

· Hazard pictograms







GHS07

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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 respiratory irritation.

May cause damage to the lung through prolonged or repeated

exposure. Route of exposure: Inhalation.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

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:** Not applicable. · **vPvB:** Not applicable.

## 3 Composition/information on ingredients

· Chemical characterisation: Mixtures

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

· Dangerou	s components:	
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	25-50%
	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	
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318; Acute Tox. 5, H313	≥3-<10%
	Eye Dam. 1, H318; Acute Tox. 5, H313	
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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; STO 3, H335	T SE
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; STO 3, H335	≥0.1-<1% T SE

• **Additional information** For the wording of the listed hazard phrases refer to section 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
 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.

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

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· 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.

· **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 item 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

TLV (USA) Long-term value: 0.005 ppm

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

Long-term value: 0.02 mg/m<sup>3</sup>

Sen; as -NCO

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5873-54-1 diphe	nylmethane-2,4'-diisocyanate	(Contd. of p
-	nin) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
DNELs	,	
	nylmethanediisocyanate,isomeres and homologues	
-	0.05 mg/m³ (ArL)	
101-68-8 dipher	ylmethane-4,4'-di-isocyanante	
Dermal DNEL	50 mg/kg bw/day (Ark)	
	0.05 mg/m³ (ArL)	
-	nylmethane-2,4'-diisocyanate	
Inhalative DNEL	0.05 mg/m³ (ArL)	
PNECs		
9016-87-9 diphe	nylmethanediisocyanate,isomeres and homologues	
,	ewage Treatment Plant)	
0.1 mg/l	,	
1 mg/l (S	•	
PNEC 1 mg/kg	• •	
•	ylmethane-4,4'-di-isocyanante	
_ ,	ewage Treatment Plant)	
0.1 mg/l	•	
1 mg/l (S	•	
PNEC 1 mg/kg	· , ,	
-	nylmethane-2,4'-diisocyanate	
_ ,	ewage Treatment Plant)	
0.1 mg/l	•	
1 mg/l (S	•	
PNEC 1 mg/kg		
	n biological limit values:	
•	ylmethane-4,4'-di-isocyanante	
BMGV (Great Br	itain) 1 µmol creatinine/mol	
	Medium: urine Sampling time: At the end of the period od exposure	
	Parameter: isocyanate-derived diamine	
5873-54-1 diphe	nylmethane-2,4'-diisocyanate	
BMGV (Great Br	, i	
	Medium: urine	
	Sampling time: At the end of the period od exposure	
Additional info	Parameter: isocyanate-derived diamine  mation: The lists that were valid during the compilation were	

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· 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 break trough time has to be found out by the

manufacturer of the protective gloves and has to 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: Fluid

· Smell: Characteristic

· Change in condition

Melting point/freezing point: Not applicable

Initial boiling point and boiling range: 190 °C

· Flash point: 110 °C

· Ignition temperature: 420 °C

· **Self-inflammability:** Product is not selfigniting.

• Explosive properties: Product is not explosive.

Density at 20 °C 1.22 g/cm<sup>3</sup>

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

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· Other information

No further relevant information available.

## 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

products: No dangerous decomposition products known

### 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity

/ loute tox	10119	
· 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)
101-68-8	diphenylm	nethane-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

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 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 2

## 12 Ecological information

· Toxicity

· Aquatic toxicity:
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)
LC50/96h >1000 mg/l (Brachydanio rerio)
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
 Mobility in soil
 No further relevant information available.
 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: Not applicable.vPvB: Not applicable.

· 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.

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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
Marpol and the IBC Code	Not applicable.

### 15 Regulatory information

- · 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.

· 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)

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PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic 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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

\* \* Data compared to the previous version altered.