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

Printing date 22.09.2023 Version number 34 (replaces version 33) Revision: 22.09.2023

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

· 1.1 Product identifier

· Trade name ombran flex - Komponente B

3225 · Article number:

· 1.2 Relevant identified uses of the substance or mixture

and uses advised against No further relevant information available.

· Application of the substance

/ the mixture Polyurethane-sealent · 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MC-Bauchemie Müller GmbH & Co. KG 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:

· 1.4 Emergency telephone

number:

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

msds@mc-bauchemie.de

Tel.: +48612864565

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eve 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.

H400 Very toxic to aquatic life. Aquatic Acute 1

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

· 2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms

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· Signal word Danger

· Hazard-determining

components of labelling: diphenylmethanediisocyanate,isomeres and homologues

GHS07

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

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

· Hazard statements H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H317 May cause an allergic skin reaction.

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

H362 May cause harm to breast-fed children.

H335 May cause respiratory irritation.

H373 May cause damage to the lung through prolonged or

repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements P260 Do not breathe dusts or mists.

P263 Avoid contact during pregnancy and while

nursing.

P305+P351+P338 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.

P310 P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it

before reuse.

P403+P233 Store in a well-ventilated place. Keep container

tightly closed.

· Additional information: Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before

industrial or professional use.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT:

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

vPvB:

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



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# **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

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

CAS: 85535-85-9	chloroalkanes (C=14-17)	30-60%
	Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10); Lact., H362, EUH066 PBT; vPvB	
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues 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, EUH204 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; H335: $C \ge 5$ %	30-60%
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318	≥3-<10%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	diphenylmethane-4,4'-di-isocyanante 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, EUH204 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; H335: $C \ge 5$ %	<i>≥</i> 1-<1.5%
CAS: 5873-54-1 EINECS: 227-534-9	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, EUH204 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ %	≥0.1-<19

· Additional information

For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

· 4.1 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
 Supply fresh air; consult doctor in case of symptoms.
 Instantly wash with water and soap and rinse thoroughly.

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• After eye contact Rinse opened eye for several minutes under running water.

Seek medical treatment.

· After swallowing Call a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and

delayed No further relevant information available.

4.3 Indication of any

immediate medical attention

and special treatment needed No further relevant information available.

### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or

mixture No further relevant information available.

· 5.3 Advice for firefighters

• **Protective equipment:** Put on breathing apparatus.

## SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

**emergency procedures** Not required.

· 6.2 Environmental

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

· 6.3 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.

· 6.4 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.

### SECTION 7: Handling and storage

· 7.1 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.

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· 7.2 Conditions for safe storage, including any incompatibilities

· 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

No further relevant information available. · 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

## 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL | 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

WEL Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m3

Sen; as -NCO

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

WEL Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup>

Sen; as -NCO

#### DNELs

#### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Inhalative DNEL 0.05 mg/m³ (ArL)

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

DNEL 50 mg/kg bw/day (Ark) Dermal Inhalative DNEL 0.05 mg/m³ (ArL)

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

Inhalative DNEL 0.05 mg/m³ (ArL)

#### · PNECs

### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

PNEC 1 mg/l (Sewage Treatment Plant)

0.1 mg/l (Mew) 1 mg/l (Suw)

PNEC 1 mg/kg dwt (Bod)

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(Contd. of page 5) 101-68-8 diphenylmethane-4,4'-di-isocyanante PNEC 1 mg/l (Sewage Treatment Plant) 0.1 mg/l (Mew) 1 mg/l (Suw) PNEC 1 mg/kg dwt (Bod) 5873-54-1 diphenylmethane-2,4'-diisocyanate PNEC 1 mg/l (Sewage Treatment Plant) 0.1 mg/l (Mew) 1 mg/l (Suw) PNEC 1 mg/kg dwt (Bod) Ingredients with biological limit values: 101-68-8 diphenylmethane-4,4'-di-isocyanante BMGV 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine 5873-54-1 diphenylmethane-2,4'-diisocyanate BMGV 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure

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

· 8.2 Exposure controls · Appropriate engineering

controls No further data; see section 7.

Parameter: isocyanate-derived diamine

· Individual protection measures, such as 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.

• Hand protection Conditionally suitable materials for protective gloves; EN 374-3:

Nitrile rubber - NBR: Thickness  $\geq 0.35$ mm.

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/face protection Safety glasses

Tightly sealed safety glasses.

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· **Body protection:** Protective work clothing.

## **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Black

· Smell: Characteristic
· Melting point/freezing point: Not determined
Not applicable

· Boiling point or initial boiling point and

boiling range 190 °C
• Flash point: 110 °C
• Auto-ignition temperature: 420 °C

· **pH** Not determined.

· Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.1276 mPas

Solubility

· Water: Not miscible or difficult to mix

· Steam pressure: Not determined.

· Density and/or relative density

Density at 20 °C 1.19 g/cm<sup>3</sup>

· 9.2 Other information

· Appearance:

Fluid

· Important information on protection of health

and environment, and on safety.

• Self-inflammability: Product is not selfigniting. • Explosive properties: Product is not explosive.

Void

Information with regard to physical hazard

classes

· Oxidising liquids

· Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void Void · Pyrophoric liquids Void · Pyrophoric solids · Self-heating substances and mixtures Void · Substances and mixtures, which emit Void flammable gases in contact with water

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· Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
· Desensitised explosives	Void

### SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability
Thermal decomposition /

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

· 10.3 Possibility of hazardous

reactions Reacts with amines

• 10.4 Conditions to avoid No further relevant information available. • 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous

decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

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

· Acute toxicity Based on available data, the classification criteria are not met.

· I D/I C50 v	values tha	t are relevant for classification:
		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-epoxypropoxy)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)

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin

sensitisation May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Based on available data, the classification criteria are not met.
 Suspected of causing cancer. Route of exposure: Inhalation.

• Reproductive toxicity May cause harm to breast-fed children.

· STOT-single exposure May cause respiratory irritation.

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· STOT-repeated exposure May cause damage to the lung through prolonged or repeated

exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

	•
· Aquatio	c 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)

· 12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential
No further relevant information available.
12.4 Mobility in soil
No further relevant information available.

12.5 Results of PBT and vPvB assessment

· PBT:

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

· vPvB:

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

· 12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting

properties.

· 12.7 Other adverse effects

· 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.

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### SECTION 13: Disposal considerations

· 13.1 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.

# SECTION 14: Transport information

14.1 UN number or ID number

· ADR, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Not applicable.

· 14.7 Maritime transport in bulk according to

IMO instruments Not applicable.

· UN "Model Regulation": Void

## **SECTION 15: Regulatory information**

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

substance or mixture
15.2 Chemical safety

No further relevant information available.

13.2 Chemical Safety

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

### **SECTION 16: Other information**

• Relevant phrases H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

· Department issuing data specification sheet:

Environment protection department.

· 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 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 -

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

· \* Data compared to the previous version altered.