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Safety Data Sheet according to P.U.(A) 310/2013

Printing date 26.05.2024 Version number 35 Revision: 07.05.2024

1 Identification of the hazardous chemical and of the supplier

· Product identifier

· Trade name ombran flex - Komponente B

Recommended use of the chemical and restrictions on

use No further relevant information available.

· Application of the substance

/ the mixture Polyurethane-sealent

· 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: msds@mc-bauchemie.de

2 Hazard identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

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

Skin Sens. 1 H317 May cause allergic skin reaction.
Carc. 2 H351 Suspected of causing cancer.

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 GHS09

· Signal word Danger

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· 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 H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergic or asthma symptoms or breathing

difficulties if inhaled.

H317 May cause allergic skin reaction. H351 Suspected of causing cancer.

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/ 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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

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

tightly closed.

· Other hazards

· Results of PBT and vPvB assessment

· PBT:

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

· vPvB:

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

3 Composition and information of the ingredients of the hazardous chemical

· Chemical characterisation: Mixtures

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

· Dangerous components:		
CAS: 85535-85-9	chloroalkanes (C=14-17)	30-60%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362 PBT; vPvB	
CAS: 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	ntd. of page 2)
CAS: 2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥3-<10%
	Eye Dam. 1, H318	
CAS: 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	
CAS: 5873-54-1	Diphenylmethane-2,4'-diisocyanate	≥0.1-<1%
	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	
· Additional infori	nation For the wording of the listed hazard phrases refer to sec	ction 16.

4 First-aid measures

· Description of first aid measures

General information Immediately remove any clothing contaminated with 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.

5 Fire-fighting 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.

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.

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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

8 Exposure controls and 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:

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

PEL (Malaysia) Long-term value: 0.051 mg/m³, 0.005 ppm

· DNELs

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Inhalative DNEL 0.05 mg/m³ (ArL)

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

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

CAS: 5873-54-1 Diphenylmethane-2,4'-diisocyanate

Inhalative DNEL 0.05 mg/m³ (ArL)

· PNECs

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

PNEC 1 mg/l (Sewage Treatment Plant)

0.1 mg/l (Mew)

1 mg/l (Freshwater)

PNEC 1 mg/kg dwt (Bod)

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

PNEC 1 mg/l (Sewage Treatment Plant)

0.1 mg/l (Mew) 1 mg/l (Freshwater) PNEC 1 mg/kg dwt (Bod)

CAS: 5873-54-1 Diphenylmethane-2,4'-diisocyanate

PNEC 1 mg/l (Sewage Treatment Plant)

0.1 mg/l (Mew)
1 mg/l (Freshwater)
PNEC 1 mg/kg dwt (Bod)

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

· 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: Not required.

Body protection: Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Colour: Black
Smell: Characteristic

· pH-value: Not determined.

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Change in condition		
Melting point/freezing point	Not determined	
37.	Not applicable	
Initial boiling point and boiling ra		
Flash point:	110 °C	
Auto-ignition temperature	420 °C	
Auto-ignition temperature	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:	1276 mPas	
kinematic:	Not determined.	

10 Stability and reactivity

No further relevant information available. Reactivity

· Chemical stability

Thermal decomposition / conditions to be avoided:

· Possibility of hazardous

reactions

· Conditions to avoid

· Incompatible materials: · Hazardous decomposition

products:

No decomposition if used according to specifications.

Reacts with amines

No further relevant information available. No further relevant information available.

No further relevant information available.

No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral LD50 >10000 mg/kg (Rat)

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Dermal	LD50	>5000 mg/kg (Rab)	
Inhalative	LC50/4 h	~450 mg/l (Rat)	
CAS: 2530	0-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane	
Oral	LD50	8030 mg/kg (rat)	
Dermal	LD50	4248 mg/kg (rabbit)	
CAS: 101-	CAS: 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 or irritation

Irritant for skin and mucous membranes.

Serious eye damage or eye

irritation

Irritant effect.

· Respiratory / skin sensitization

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 to	· Aquatic toxicity:		
CAS: 2530-	CAS: 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)		
CAS: 101-6	CAS: 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 No further relevant information available.
- Mobility in soil No further relevant information available.

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· 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:

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

· vPvB:

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

• Other adverse effects No further relevant information available.

13 Disposal information

· 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.

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 Anno	ex II of	
Marpol and the IBC Code	Not applicable.	

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15 Regulatory information

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

· EHS reference list	
CAS: 85535-85-9	chloroalkanes (C=14-17)
CAS: 101-68-8	diphenylmethane-4,4'-di-isocyanante
CAS: 5873-54-1	Diphenylmethane-2,4'-diisocyanate

· 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

route (European Agreement Concerning the International 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 vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - oral – Category 4 Skin Irrit. 2: Skin corrosion or irritation – Category 2

Eye Dam. 1: Serious eye damage or eye irritation – Category 1

Eye Irrit. 2: Serious eye damage or eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitization - Category 1

Skin Sens. 1: Skin sensitization – Category 1

Carc. 2: Carcinogenicity – Category 2

Lact.: Reproductive toxicity - effect 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 hazard – Category

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

* Data compared to the previous version altered.