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

Printing date 16.11.2021

Version number 8

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Product identifier	
Trade name Relevant identified uses of the substance or mixture and	MC-DUR 2500 - Komponente B
uses advised against Application of the substance	No further relevant information available.
/ the mixture	Polyurethane lacquer Hardening agent/ Curing agent
<i>Details of the supplier of the s Manufacturer/Supplier:</i>	afety data sheet 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: Emergency telephone	msds@mc-bauchemie.de
number:	Tel.: +49 / (0)700 24112112 (MCR) Tel.: +48612864565

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 Irrit.* 2A H319 Causes serious eye irritation.
- 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.
- STOT SE 3 H335 May cause respiratory irritation.

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

- · Label elements
- [·] GHS label elements

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

· Hazard pictograms



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· Signal word	Danger
 Hazard-determining components of labelling: 	diphenylmethanediisocyanate,isomeres and homologues diphenylmethane-4,4'-di-isocyanante diphenylmethane-2,2'-diisocyanate diphenylmethane-2,4'-diisocyanate
· Hazard statements	May be harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
· Precautionary statements	Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. Store in a well-ventilated place. Keep container tightly closed.
 Other hazards Results of PBT and vPvB as 	
· PBT:	Not applicable.
· vPvB:	Not applicable.

3 Composition/information on ingredients • Chemical characterisation: Mixtures • Description: Active substance with propellant. Mixture consisting of the following components. • Dangerous components: 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues 70-100% 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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101-68-8	diphenylmethane-4,4'-di-isocyanante	ontd. of page 2) <i>≥10-</i> <25%
	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	
2536-05-2	diphenylmethane-2,2'-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	<u>≥</u> 5-<10%
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	≥5-<10%

4 First aid measures

General information	Instantly remove any clothing soiled by the product.
	Take affected persons into the open air.
	Seek medical treatment.
After inhalation	Supply fresh air; consult doctor in case of symptoms.
After skin contact	Instantly wash with water and soap and rinse thoroughly.
After eye contact	Rinse opened eye for several minutes under running water
-	Call a doctor immediately.
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	

5 Firefighting measures

treatment needed

Extinguishing media
 Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet.
 Special hazards arising from the substance or mixture
 Can be released in case of fire Carbon monoxide (CO) Nitrogen oxides (NOx) Hydrogen cyanide (HCN) (Traces)

No further relevant information available.



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- Advice for firefighters • Protective equipment:
- Put on breathing apparatus.

6 Accidental release measures

 Personal precautions, protective equipment and 	
emergency procedures	Wear protective equipment. Keep unprotected persons away.
• 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 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

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101-68-	8 diphenyln	nethane-4,4'-di-isocyanante	(Contd. of pag
PEL (US		Ceiling limit: 0.2 mg/m ³ , 0.02 ppm	
REL (US	,	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit: 0.2* mg/m³, 0.02* ppm *10-min	
TLV (US	SA)	Long-term value: 0.005 ppm	
WEL (G	reat Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
2536-05	5-2 diphenyl	methane-2,2'-diisocyanate	
WEL (G	reat Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
5873-54	l-1 diphenyl	methane-2,4'-diisocyanate	
WEL (G	ireat Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
DNELs			
9016-87	7-9 diphenyl	methanediisocyanate, isomeres and homologues	
Inhalativ	/e DNEL 0.	05 mg/m³ (ArL)	
101-68-		nethane-4,4'-di-isocyanante	
Dermal	DNEL 50	mg/kg bw/day (Ark)	
		05 mg/m³ (ArL)	
		methane-2,4'-diisocyanate	
Inhalativ	/e DNEL 0.	05 mg/m³ (ArL)	
PNECs			
9016-87	7-9 diphenyl	methanediisocyanate, isomeres and homologues	
PNEC [•]	1 mg/l (Sewa	ge Treatment Plant)	
(0.1 mg/l (Me	N)	
	1 mg/l (Suw)		
PNEC	1 mg/kg dwt	(Bod)	
		nethane-4,4'-di-isocyanante	
		ge Treatment Plant)	
	0.1 mg/l (Me	N)	
	1 mg/l (Suw)		
	1 mg/kg dwt		
		methane-2,4'-diisocyanate	
		ge Treatment Plant)	
	0.1 mg/l (Me	v)	
· · · · · · · · · · · · · · · · · · ·	1 mg/l (Suw)		
	1 mg/kg dwt		



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101-68-8 diphenylme	ethane-4,4'-di-isocyanante	
BMGV (Great Britain)) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine	
2536-05-2 diphenylm	ethane-2,2'-diisocyanate	
BMGV (Great Britain)) 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine	
5873-54-1 diphenylm	ethane-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	
· Additional information	on: The lists that were valid during the compilation were used as bas	
	Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.	
· Breathing equipmen	Avoid contact with the eyes and skin. t: Short term filter device: In case of brief exposure or low pollution use breathing fi apparatus. In case of intensive or longer exposure use breath apparatus that is independent of circulating air.	
	Avoid contact with the eyes and skin. t: Short term filter device: In case of brief exposure or low pollution use breathing fi apparatus. In case of intensive or longer exposure use breath apparatus that is independent of circulating air.	
• Protection of hands: • Material of gloves	Avoid contact with the eyes and skin. t: Short term filter device: In case of brief exposure or low pollution use breathing fi apparatus. In case of intensive or longer exposure use breath apparatus that is independent of circulating air. Protective gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation After use of gloves apply skin-cleaning agents and skin cosmetic Nitrile rubber, NBR The selection of the suitable gloves does not only depend on material, but also on further marks of quality and varies fr manufacturer to manufacturer. As the product is a preparation several substances, the resistance of the glove material can not calculated in advance and has therefore to be checked prior to application.	
 Protection of hands: Material of gloves Penetration time of g 	Avoid contact with the eyes and skin. t: Short term filter device: In case of brief exposure or low pollution use breathing fil apparatus. In case of intensive or longer exposure use breath apparatus that is independent of circulating air. Protective gloves. Selection of the glove material on consideration of the penetrations, rates of diffusion and the degradation After use of gloves apply skin-cleaning agents and skin cosmetion Nitrile rubber, NBR The selection of the suitable gloves does not only depend on material, but also on further marks of quality and varies fir manufacturer to manufacturer. As the product is a preparation several substances, the resistance of the glove material can not calculated in advance and has therefore to be checked prior to application. glove	
• Protection of hands: • Material of gloves	Avoid contact with the eyes and skin. t: Short term filter device: In case of brief exposure or low pollution use breathing fi apparatus. In case of intensive or longer exposure use breath apparatus that is independent of circulating air. Protective gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation After use of gloves apply skin-cleaning agents and skin cosmetic Nitrile rubber, NBR The selection of the suitable gloves does not only depend on material, but also on further marks of quality and varies fr manufacturer to manufacturer. As the product is a preparation several substances, the resistance of the glove material can not calculated in advance and has therefore to be checked prior to application.	



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· Body protection:

Protective work clothing.

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9 Physical and chemical proper	rties
Information on basic physical and c	hemical properties
• General Information	
· Appearance:	
Form:	Liquid
Colour:	Dark brown
· Smell:	Characteristic
· pH-value:	Not applicable.
· Change in condition	
Melting point/freezing point:	Not determined
Initial boiling point and boiling rai	зде: 190 °C
· Flash point:	220 °C
· Ignition temperature:	400 °C
• Explosive properties:	Product is not explosive.
· Steam pressure at 25 °C:	0.0002 hPa
· Density at 20 °C	1.24 g/cm³
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
· 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:

- · 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 dangerous decomposition products known

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	on on toxi	nformation icological effects
	-	at are relevant for classification:
Oral	LD50	>10000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Kan)
Inhalative	LC50/4 h	~450 mg/l (Rat)
9016-87-9	diphenyl	methanediisocyanate,isomeres and homologues
Oral	LD50	>10000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rab)
Inhalative	LC50/4 h	~450 mg/l (Rat)
101-68-8	diphenylm	hethane-4,4'-di-isocyanante
Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>9400 mg/kg (rabbit)
Primary in Skin corre Serious e Respirato sensitisat Additiona informatio	osion/irrita ye damag ry or skin tion I toxicolo	ation Irritant for skin and mucous membranes. Je/irritation Irritant effect. Sensitization possible by inhalation. Sensitization possible by skin contact.
· CMR effe mutageni reproduct	city and to	nogenity, oxicity for Carc. 2

12 Ecological information

Aquatic to	xicity:	
101-68-8 c	iphenylmethane-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)	
Behaviou	ce and degradability No further relevant information available. in environmental systems: ulative potential No further relevant information available.	
Divaccuii	ulauve polentiai ino tuttilet relevant information available.	(Contd. on page



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· Mobility in soil · Additional ecological infor	(Contd. of page 8) No further relevant information available. mation:
General notes:	Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
 Results of PBT and vPvB a 	nssessment
· 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:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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.	

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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

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet: Contact:	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 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 dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 5: Acute toxicity – Category 5 Skin Irrit. 2: Serious eye damage/eye irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 1 Skin 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 (isngle exposure) – Category 2