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

Printing date 20.04.2023

Version 4 (replaces version 3)

Revision: 20.04.2023

SECTION undertakin	<i>1: Identification of the substance/mixture and of the company/ ng</i>	
· 1.1 Product	identifier	
• UFI: XFG0-9 • Product cate	e: <u>OTTOCOLL P 410</u> 000H-A006-WJ54 egory PC1 Adhesives, sealants of the substance / the mixture Preparation of adhesives	
 Manufacture Hermann Ott Krankenhaus D-83413 Frid Tel.: 0049/(0) 	to GmbH sstraße 14 dolfing	
Tel.: 0049- (0 E-Mail: alois. _I · 1.4 Emerge n Tel.: 0049- (0	nmation obtainable from: 0)8684- 908- 2363 (-4300) .parzinger@otto-chemie.de ncy telephone number: 0) 89- 192 40 (emergency telephone no.) 7333 (Carechem 24)	
SECTION	2: Hazards identification	
	cation of the substance or mixture on according to Regulation (EC) No 1272/2008	
hea	alth hazard	
Carc. 2	 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. 	
Acute Tox. 4	H332 Harmful if inhaled.	
Skin Irrit. 2	H315 Causes skin irritation.	
Eye Irrit. 2		
	H317 May cause an allergic skin reaction.	
STOT SE 3	H335 May cause respiratory irritation.	
The product i	ccording to Regulation (EC) No 1272/2008 is classified and labelled according to the GB CLP regulation. ograms GHS07, GHS08	
. Unanza data	ermining components of labelling:	
diphenylmeth Hazard state H332 Harmfu H315 Causes H319 Causes H334 May ca H317 May ca	ements ul if inhaled. s skin irritation. s serious eye irritation. ause allergy or asthma symptoms or breathing difficulties if inhaled. ause an allergic skin reaction.	
diphenylmeth Hazard state H332 Harmfu H315 Causes H319 Causes H334 May ca H317 May ca H351 Suspec	ements ul if inhaled. s skin irritation. s serious eye irritation. ause allergy or asthma symptoms or breathing difficulties if inhaled.	

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1070 Maria		td. of page
	se damage to organs through prolonged or repeated exposure.	
Precautionary		
P102	Keep out of reach of children.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves / eye protection.	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.	
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	lenses, if present and easy to do. Continue rinsing. Get medical advice	e/attentior
Additional info		
	anates. May produce an allergic reaction.	
	ust 2023 adequate training is required before industrial or professional use	Э.
2.3 Other haza	ırds	
Information acc	ording to UK REACH- Annex XVII.56	
	dy sensitised to diisocyanates may develop allergic reactions when using	this
product.		
	ring from asthma, eczema or skin problems should avoid contact, including	g dermal
contact, with thi		•
	should not be used under conditions of poor ventilation unless a protective	mask wit
	gas filter (i.e.type A1 according to standard EN 14387) is used.	
	T and vPvB assessment	
Results of PD	i and vrvb assessment	
DDT. Mat any li		
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PBT: Not applic vPvB: Not appl		
vPvB: Not appl	licable.	
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vPvB: Not appl SECTION 3: 3.2 Mixtures	licable.	
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vPvB: Not appl SECTION 3: 3.2 Mixtures Description: Prepolymer, ba	licable. Composition/information on ingredients sed on diphenylmethandiisocyanat with monomeric and polymeric content	s
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vPvB: Not appl SECTION 3: 3.2 Mixtures Description: Prepolymer, ba Dangerous co	licable. Composition/information on ingredients sed on diphenylmethandiisocyanat with monomeric and polymeric content mponents: olymer MDI-basiertes Polyisocyanat-Prepolymer	
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vPvB: Not appl SECTION 3: 3.2 Mixtures Description: Prepolymer, ba Dangerous co Reg.nr.: EG: Pc CAS: 9016-87-5	Iicable. Composition/information on ingredients sed on diphenylmethandiisocyanat with monomeric and polymeric content mponents: blymer MDI-basiertes Polyisocyanat-Prepolymer & 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: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 % 9 diphenylmethanediisocyanate,isomeres and homologues	
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SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- After skin contact Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- After eye contact
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing

Do not induce vomiting; call for medical help immediately. Show container or label.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment:

Mount respiratory protective device.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling
- See Section 13 for disposal information.
- See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

[.] 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. see item 8: Personal protective equipment

- · Information about fire and explosion protection: Keep ignition sources away Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

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SECTION 8: Exposure controls/p	personal protection				
8.1 Control parameters					
Ingredients with limit values that requi	re monitoring at the workplace:				
9016-87-9 diphenylmethanediisocyana					
WEL Short-term value: 0.07 mg/m ³					
Long-term value: 0.02 mg/m³					
Sen; as -NCO					
Additional information: The lists valid du	uring the making were used as basis.				
8.2 Exposure controls					
Appropriate engineering controls No fu					
Individual protection measures, such a					
General protective and hygienic measures The usual precautionary measures are to be adhered to when handling chemicals.					
Wash hands before breaks and at the end					
Avoid contact with the eyes and skin.	u or work.				
Respiratory protection:					
	onditions of poor ventilation unless a protective mask with				
an appropriate gas filter (i.e.type A1 according to standard EN 14387) is used.					
Hand protection Protective gloves.	•				
Material of gloves					
	not only depend on the material, but also on further mark				
of quality and varies from manufacturer to					
Recommended glove types: nitrile rubber					
Recommended thickness of the material: >0,4 mm					
Ponetration time of alove material Pres	akthrough time: 10 - 30 min				
Penetration time of glove material Brea	akthrough time: 10 - 30 min				
Eye/face protection Safety glasses Body protection: Protective work clothing	g.				
Eye/face protection Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1 Information on basic physical and c	g. i cal properties				
Eye/face protection Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1 Information on basic physical and o General Information	^{g.} i <mark>cal properties</mark> chemical properties				
Eye/face protection Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1 Information on basic physical and o General Information Physical state	g. ical properties chemical properties Fluid				
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Eye/face protection Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1 Information on basic physical and of General Information Physical state Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit Lower: Upper: Flash point:	g. ical properties chemical properties Fluid Brown Characteristic undetermined d >300 °C Not determined. not applicable not applicable >200 °C				
Eye/face protection Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1 Information on basic physical and of General Information Physical state Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit Lower: Upper: Flash point: Ignition temperature:	g. ical properties chemical properties Fluid Brown Characteristic undetermined d >300 °C Not determined. not applicable not applicable >200 °C >400 °C				
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Eye/face protection Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1 Information on basic physical and of General Information Physical state Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit Lower: Upper: Flash point: Ignition temperature: Decomposition temperature: pH Viscosity at 23 °C: Solubility	rg. ical properties chemical properties Fluid Brown Characteristic undetermined d >300 °C Not determined. not applicable >200 °C >400 °C Not determined. Not determined.				
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Eye/face protection Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1 Information on basic physical and of General Information Physical state Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit Lower: Upper: Flash point: Ignition temperature: pH Viscosity at 23 °C: Solubility Water: Partition coefficient n-octanol/water (Io value)	ig. ical properties chemical properties Fluid Brown Characteristic undetermined d >300 °C Not determined. not applicable >200 °C >400 °C Not determined. Not determined.				
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Vapour density Particle characteristics	Not applicable. undetermined	(Contd. of page 4
9.2 Other information		
Form:	Fluid	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Not determined.	
Information with regard to physical	l hazard	
classes		
Aerosols	Void	
Flammable liquids	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. Avoid strong heating.
- **10.3 Possibility of hazardous reactions** Reacts with alcohols Reacts with amines Exothermic reaction
- **10.5 Incompatible materials:** If isocyanate gets in contact with humidity, carbon dioxide is released. The carbon dioxide causes an overpressure in closed containers.
- · 10.6 Hazardous decomposition products: see item 5.2

SECTION 11: Toxicological information

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

- · Acute toxicity Harmful if inhaled.
- LD/LC50 values relevant for classification:
- 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral LD50 >10,000 mg/kg (rat)

Dermal LD50 >9,400 mg/kg (rbt)

Inhalative LC50/4 h 0.49 mg/l (rat)

- Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation

Sensitive people may react strongly to minimal concentrations. We advise asthmatics and people who tend to diseases of the respiratory tracts against the contact with this product. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- May cause an allergic skin reaction.
- · Carcinogenicity Suspected of causing cancer.
- · STOT-single exposure May cause respiratory irritation.
- STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.2 Persistence and degradability

· Other information: Product is not biodegradable.

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according to 1907/2006/EC, Article 31

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- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- *Remark:* Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
- · Additional ecological information:
- · General notes:
- Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Observe local by-laws.

Already cured material can be disposed of with the domestic or commercial waste. Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.

Uncleaned packaging:

· Recommendation:

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

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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				
 ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es) 	V0/0			
· 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				
IMO instruments	Not applicable.			
 Transport/Additional information: 	Not dangerous according to the above specifications.			
· UN "Model Regulation":	Void			

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- Information about limitation of use: Employment restrictions concerning juveniles must be observed.
 Employment restrictions concerning pregnant and lactating women must be observed.

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 Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
 Details of international registration status: Listed on or in accordance with the following inventories:

UK REACH - Europe listed AICS - Australia listed DSL- Canada listed IECSC - China listed ENCS - Japan listed NZIoC - New Zealand listed **PICCS - Philippines** listed ECL - Korea listed TSCA - USA listed TCSI - Taiwan listed

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.
- H373 May cause damage to organs through prolonged or repeated exposure.

EUH204 Contains isocyanates. May produce an allergic reaction.

- · Department issuing SDS: Tel.: 0049- (0)8684- 908- 2363
- · Contact: Tel.: 0049- (0)8684- 908- 2363 (-4300)

• 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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) 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 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.