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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.07.2023

Version number 5 (replaces version 4)

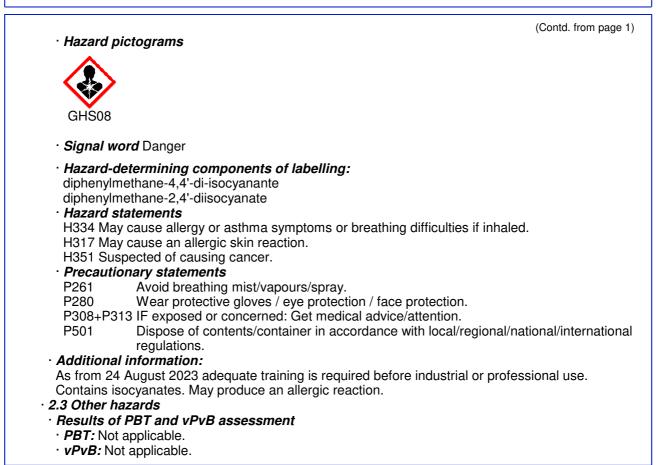
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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier Trade name: REDOCOL Kantomelt PUR natur, Granulat · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Hot melt adhesive · 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Ostermann UK Ltd. Stonebridge Cross Business Park Unit 104 Pointon Way Droitwich WR9 0LW United Kingdom Phone (UK): +44 (0) 1905 793 550 Phone (Ireland): +44 (0) 1905 793 552 Fax: +44 (0) 1905 793 559 · Informing department: **Customer Service:** Phone: +49 (0) 2871 / 2550-0 · 1.4 Emergency telephone number: Gift-Informationszentrum Nord, Göttingen Poison Information Center, Göttingen Tel.: +49 (0)551 19240 (German and English only) SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 health hazard Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer. Carc. 2 H317 May cause an allergic skin reaction. Skin Sens. 1 · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. (Contd. on page 2) GB

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: PU adhesive: Polyurethane prepolymer

 Dangerous components: 		
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47-X	diphenylmethane-4,4'-di-isocyanante	≥ 2.5 - < 5%
CAS: 5873-54-1 EINECS: 227-534-9 Reg.nr.: 01-2119480143-45-X	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: $C \ge 0.1\%$ STOT SE 3; H335: $C \ge 5\%$	≥ 0.1 - < 1%

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• 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 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. After inhalation Supply fresh air or oxygen; call for doctor. Delayed effects possible after inhalation. In case of unconsciousness bring patient into stable side position for transport. · After skin contact If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see physician for removal of adhering material and treatment of burn. · After eye contact Cool with water after contact with hot melt, go see doctor. · After swallowing Rinse out mouth. Do not induce vomitting. Consult doctor. · 4.2 Most important symptoms and effects, both acute and delayed Asthma attacks Allergic reactions · After inhalation: irritation of respiratory system. coughing Breathing difficulty · After skin contact: rash · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

Suitable extinguishing agents

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam. • For safety reasons unsuitable extinguishing agents Water with a full water jet.

- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
- During incomplete combustion carbon monoxide can be formed.

5.3 Advice for firefighters

· Protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid contact to eyes, skin and clothes. Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.
6.3 Methods and material for containment and cleaning up: Allow to solidify. Collect mechanically. Dispose of contaminated material as waste according to section 13.
6.4 Reference to other sections See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

^{· 5.1} Extinguishing media

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See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Do not eat, drink or smoke while working. Ensure good ventilation/exhaustion at the workplace. · Information about protection against explosions and fires: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage
- Requirements to be met by storerooms and containers: Store only in the original container. Keep container tightly closed. Protect from moisture.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Store container in a well ventilated position.

Recommended storage temperature: 5 - 25°C

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Components with limit values that require monitoring at the workplace: WEL: workplace exposure limit

OEL: Occupational Exposure Limit

101-68-8 c	diphenylm	nethane-4,4'-di-isocyanante		
WEL (Great Britain) Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO				
OEL (Irela	nd)	Long-term value: 0.005 ppm as -NCO; Sens		
5873-54-1	diphenyl	methane-2,4'-diisocyanate		
WEL (Gre	at Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO		
OEL (Irela	nd)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ as -NCO; Sens.		
· DNELs				
101-68-8 c	diphenylm	nethane-4,4'-di-isocyanante		
Inhalative	DNEL (wo	orker, short-term, local)	0.1 mg/m ³ (human)	
	DNEL (wo	orker, long-term, local)	0.05 mg/m³ (human)	
	DNEL (co	onsumer, short-term, local)	0.05 mg/m³ (human)	
	DNEL (co	onsumer, long-term, local)	0.025 mg/m³ (human)	
5873-54-1	diphenyl	methane-2,4'-diisocyanate		
Oral	DNEL (co	nsumer, short-term, systemic)	20 mg/kg bw/day (human)	
Dermal	DNEL (wo	orker, short-term, systemic)	50 mg/kg bw/day (human)	
	DNEL (co	onsumer, short-term, systemic)	25 mg/kg bw/day (human)	
	DNEL (wo	orker, short-term, local)	28.7 mg/kg bw/day (human)	
	DNEL (co	nsumer, short-term, local)	17.2 mg/kg bw/day (human)	
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Inhalative	DNEL (worker, short-term, systemic)	0.1 mg/m ³ (human)
	· · · · · · · · · · · · · · · · · · ·	- ()
	DNEL (worker, long-term, systemic)	0.05 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	0.05 mg/m^3 (human)
		0.00 mg/m (numun)

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DNEL (cons	sumer, short-terr	n, systemic)	0.05 mg/m ³ (human)	
, ,	sumer, long-term	,	0.025 mg/m ³ (human)	
	ker, short-term, l	•	0.1 mg/m ³ (human)	
,	ker, long-term, lo	,	0.05 mg/m ³ (human)	
	sumer, short-terr	,	0.05 mg/m ³ (human)	
,	sumer, long-term	,	0.025 mg/m^3 (human)	
· PNECs		.,,	()	=
101-68-8 diphenylme	thane-4 4'-di-iso	ocvanante		_
PNEC aqua (freshwate		0.0037 mg/l	()	
PNEC aqua (marine w	,	0.00037 mg		
PNEC soil		1 mg/kg soi		
PNEC sediment (fresh	water)		sedim. dw (.)	
PNEC sediment (mari	,		sedim. dw (.)	
PNEC aqua (intermitte	,	0.037 mg/L		
5873-54-1 diphenylm	,	-	(•)	
PNEC aqua (freshwate		1 mg/L (.)		_
PNEC aqua (marine w	,	0.1 mg/L (.)		
PNEC STP - Sewage	,	,		
PNEC soil		1 mg/kg soi	l dw (.)	
PNEC aqua (intermitte	ent releases)	10 mg/L (.)		
Ingredients with b	,	• • •		_
101-68-8 diphenylme	-			_
BMGV (Great Britain)				_
, , , , , , , , , , , , , , , , , , , ,	Medium: urine			
			the period od exposure	
5072 54 1 dinbonylm	Parameter: isoc			_
5873-54-1 diphenylm BMGV (Great Britain)		-		
Dividiv (Great Dritain)	Medium: urine	6/1101		
	Sampling time:		the period od exposure	
	Parameter: isoc			
 Additional information 	ation: The lists th	nat were valio	during the compilation were used as basis.	
 8.2 Exposure control 				
Appropriate engine				
			generation or release.	
In the case of regular			<i>nal protective equipment</i>	
· General protective			nai proteotive equipment	
Do not eat, drink or	smoke while wo	rking.		
Wash hands during		ne end of the	work.	
Breathing equipmed Approved dust resp		used for duct	y conditions or if dust levels exceed establishe	d
standards.				ü
· Hand protection H		oves		
Material of gloves				
Heat protection glo Nitrile rubber, NBF				
Nithe rubber, NBF	1		(Contd. on pag	e 6)

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according to 1907/2006/EC, Article 31 Version number 5 (replaces version 4) Revision: 07.07.2023 Printing date 07.07.2023 Trade name: REDOCOL Kantomelt PUR natur, Granulat (Contd. from page 5) · Penetration time of glove material With solid dry substances permeation is not to be expected. Therefore the breakthrough-time for this protective glove has not been measured. In case of a layer thickness of 0.4 mm the penetration time is longer than 480 minutes. Eye/face protection Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties **General Information** · Physical state Solid · Colour: Whitish · Odour: Characteristic · Odour threshold: Not determined. Not determined. Flammability > 200 °C Flash point: Not determined > 500 °C · Auto-ignition temperature: • Decomposition temperature: Not determined. SADT · pH Not applicable. Viscosity: 35000 - 55000 mPas dynamic at 120 °C: Solubility · Water: Insoluble Partition coefficient n-octanol/water (log Not determined. value) Vapour pressure: Not applicable. Density and/or relative density Density at 20 °C 1.25 - 1.35 g/cm³ · 9.2 Other information Appearance: · Form: Granulate · Important information on protection of health and environment, and on safety. · Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive. · VOC EU 0% Change in condition 58 - 62 °C Fusion temperature / range: Information with regard to physical hazard classes Explosives Void · Flammable gases Void · Aerosols Void

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· Oxidising gases	Void	
· Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
• Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
 Desensitised explosives 	Void	

SECTION 10: Stability and reactivity

• 10.1 Reactivity Reacts with water: Pressure built up in closed vessel (CO₂).

· 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications. **10.3 Possibility of hazardous reactions**

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

- · 10.4 Conditions to avoid Protect from moisture.
- 10.5 Incompatible materials:
- Water

Alcohols

Amines

· 10.6 Hazardous decomposition products: At higher temperatures isocyanate may be released.

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.

· LD/LC50 values that are relevant for classification:

101-68-8	diphen	iylmethane-4,4'-di-isocyanante
Oral	LDL0	> 2,000 mg/kg (rat)
Inhalative	LC50	0.368 mg/l/4h (rat) (OECD 403) Dust or Mist
5873-54-1	diphe	nylmethane-2,4'-diisocyanate
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 9,400 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	0.49 mg/l/4h (rat) (OECD 403) Dust or Mist
 Serious Respiration May cause May cause 	eye da tory or se aller se an a	<i>a/irritation</i> Based on available data, the classification criteria are not met. <i>amage/irritation</i> Based on available data, the classification criteria are not met. <i>skin sensitisation</i> rgy or asthma symptoms or breathing difficulties if inhaled. allergic skin reaction. <i>acenicity</i> Based on available data, the classification criteria are not met.

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

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 Carcinogenicity Suspected of causing cancer.

• *Reproductive toxicity* Based on available data, the classification criteria are not met.

- *STOT-single exposure* Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

· Repeated dose toxicity

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

	0.19 mg/m ³ (rat) (OECD 453) Dust or Mist
LOAEC (2y)	0.23 mg/m³ (rat) Dust or Mist

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

Inhalative NOAEC (2y) 0.19 mg/m³ (rat)

• CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Carc. 2

· 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: 101-68-8 diphenylmethane-4,4'-di-isocyanante EC50 (static) > 1,000 mg/l/24h (Daphnia magna) (OECD 202) EC50 (static) 9 mg/l/48h (Daphnia magna) (OECD 202) EC50 (static) > 100 mg/l/72h (Desmodesmus subspicatus) (OECD 201) LC0 (static) > 100 mg/l/96h (Danio rerio) (OECD 203) 5873-54-1 diphenylmethane-2,4'-diisocyanate EC50 (static) 129.7 mg/l/24h (Daphnia magna) (OECD 202) EC0 1,620 mg/l/72h (Desmodesmus subspicatus) (OECD 201) LC0 > 3,000 mg/l/96h (Oryzias latipes) 12.2 Persistence and degradability Based on previous experience, this product is inert and non-degradable. Other information: There are no data available about the preparation. · 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: 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 • Additional ecological information: General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

The waste code numbers mentioned are recommendations based on the probable use of the product.

· Europe	an waste catalogue
	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

· Uncleaned packagings:

Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings can be used for recycling.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport inform	nation
 14.1 UN number or ID number ADR/RID, ADN, IMDG, IATA 	Void
 14.2 UN proper shipping name ADR/RID, ADN, IMDG, IATA 	Void
· 14.3 Transport hazard class(es)	
· ADR/RID, ADN, IMDG, IATA · Class	Void
 14.4 Packing group ADR/RID, IMDG, IATA 	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk accordin IMO instruments 	<i>ng to</i> 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

Chemical safety assessment

Named dangerous substances - ANNEX I None of the ingredients is listed.

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· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

National regulations

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

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

SECTION 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.

· 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 data specification sheet:

DEKRA This Safety Data Sheet has been drawn up in cooperation with: DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany, phone: (+49) 511 42079 - 0, reach@dekra.com.

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Abbreviations and acronyms: 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 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.