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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2021

Version number 3

Revision: 21.05.2021

SECTION 1: Identification of the substance/mixture and of the company/ undertaking - 1.1 Product identifier - Trade name: Köracur TH 650 - Komp.B - Article number: R045018-00 - CAS Number: 9016-87-9 - EC number: 618-498-9 - Index number: 615-005-00-9 - 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 Hardening agent/ Curing agent - 1.3 Details of the supplier of the safety data sheet - Manufacturer/Supplier: Kömmerling Chemische Fabrik GmbH Zweibrücker Straße 200 D-66954 Pirmasens Tel.: +49 (0)6331/56-2000 www.koe-chemie.de - Informing department: Abteilung: EU Regulatory Engineering Adhesives (department: EU Regulatory Engineering Adhesives) E-Mail: msds.koe@hbfuller.com - 1.4 Emergency telephone number: In case of poisoning: **GBK-EMTEL** International Tel.(24h): +49(0)6132/84463 (all languages) In case of transport accidents: Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 / GBK) SECTION 2: Hazards identification - 2.1 Classification of the substance or mixture - Classification according to Regulation (EC) No 1272/2008 Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 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.

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STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. - Additional information: The classification resulted from the calculation method of CLP-regulation.	
- 2.2 Label elements	
 Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. 	
- Hazard pictograms	
GHS07 GHS08	
- Signal word Danger	
- Hazard-determining components of labelling:	
methylenediphenyl diisocyanate, isomeres and homologues - Hazard statements	
H332 Harmful if inhaled.	
H315 Causes skin irritation.	
H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H317 May cause an allergic skin reaction.	
H351 Suspected of causing cancer.	
H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.	
- Precautionary statements	
P260 Do not breathe mist/vapours/spray.	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens	ses.
if present and easy to do. Continue rinsing.	,
P314 Get medical advice/attention if you feel unwell. - Additional information:	
EUH204 Contains isocyanates. May produce an allergic reaction.	
- 2.3 Other hazards	
 Results of PBT and vPvB assessment PBT: Not applicable. 	
- vPvB: Not applicable.	
SECTION 3: Composition/information on ingredients	
- 3.1 Chemical characterisation: Substances	
 CAS No. Designation: 9016-87-9 methylenediphenyl diisocyanate, isomeres and homologues 	
- Identification number(s):	
- EC number: 618-498-9	
- Index number: 615-005-00-9	

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- SVHC Doesn't contain SVHC > 0,1%.

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SECTION 4: First aid measures

- 4.1 Description of first aid measures

- After inhalation

In case of unconsciousness bring patient into a stable side position for transport.

Supply fresh air; consult doctor in case of complaints.

Even minimal concentrations of isocyanate can lead to a reaction in sensitised people. Symptoms that may occur include the following: irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing difficulties. The symptoms may only arise several hours after exposure.

- After skin contact

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

The skin is irritated. Sensitisation may occur through skin contact. Animal research has shown that skin contact with substances known to have a sensitising effect on airways, such as diisocyanate, can cause airways to be sensitised. Therefore, when carrying out activities where (un)intentional skin contact with isocyanates may occur (e.g. during maintenance work, or when opening a barrel), wear long-sleeved protective clothing and gloves.

- After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- After swallowing Do not induce vomiting; call for medical help 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

In instances of existing sensitisation towards isocyanates, a doctor should be consulted with regards to work-related contact with other sensitising substances, or substances which irritate the airway. Treatment for exposure should be geared towards monitoring symptoms and the patient's clinical condition. It must be ensured that the patient has sufficient ventilation and oxygen supply. Isocyanates can cause sensitisation of the airways, or asthma-like symptoms (bronchospasms). Delayed breathing symptoms, including lung oedema, may occur. People who have shown signs of breathlessness after considerable exposure should remain under observation for 24-48 hours.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents Water spray Alcohol-resistant foam Fire-extinguishing powder

Carbon dioxide

- 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.

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- 5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 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 disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling 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 receptacles: Prevent any seepage into the ground.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:

Protect from frost.

Keep receptacle tightly sealed. Protect from heat and direct sunlight. Store receptacle in a well ventilated area. Store in dry conditions.

- Storage class (according german VCI-concept): 10
- -7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Additional information about design of technical systems: No further data; see item 7.

- Components with limit values that require monitoring at the workplace:

CAS: 9016-87-9 methylenediphenyl diisocyanate, isomeres and homologues

WEL (Great Britain) Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³ Sen; as -NCO

- Additional information:

The homogenous mixing of this product is safeguarded by continual physical testing. Raw materials which formerly had dust-like properties are completely incorporated into the liquid / paste-like mass. Subsequently, possible TLVs for solid substances are not given, as there is no more danger of inhaling these substances (when dealing with this mixture)!

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- 8.2 Exposure controls	
- Personal protective equipment	
- General protective and hygie	
	ires should be adhered to when handling chemicals.
Keep away from foodstuffs, bev	/erages and feed.
Wash hands before breaks and	at the end of the work.
Immediately remove all soiled a	ind contaminated clothing
 Breathing equipment: 	
	on and/or adequate extractor facilities
In case of brief exposure or lo	ow pollution use respiratory filter device. In case of intensive or longe
exposure use respiratory protect	ctive device that is independent of circulating air.
Short term filter device:	
A2 (DIN EN 14387 / DIN EN 14	
- Protection of hands (DIN EN	
	al preparation must be avoided by organizational measures. Apply sk
	n gloves to avoid skin swellings and use a skin cleansing and skinca
product after the work.	
	etration time (starts with the first product contact) must be ensured!
	d of after the penetration time and new gloves used!
	oves made of the following materials are suitable:
	cal preparation is necessary, a sturdy overglove against mechanical stra
	n with the "Barrier 02-100" underglove from Ansell (penetration time 48
min).	
-	f a maximum of 15 minutes gloves made of the following material
are suitable:	
Nitrile rubber (0.8 mm - penetra	
	gloves made of the following materials are suitable:
	om splashes: disposable nitrile gloves (minimum thickness 0.12 mm) wi
	ne chemical preparation, take the disposable nitrile glove off immediate
and put on a new disposable ni	
- Eye protection: Safety glasses	;
SECTION 9: Physical an	d chemical properties
- 9.1 Information on basic phys	
- General Information	
- Appearance:	
Form:	Fluid
Colour:	Brown
- Odour:	Characteristic
- Odour threshold:	Not determined.
- Change in condition	
Initial boiling point and boil	ing range: Not determined
- Flash point:	> 200 °C
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- Ignition temperature:	> 400 °C	
- Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
- Vapour pressure at 25 °C:	< 0.0001 hPa	
- Specific gravity at 20 °C:	1.23 g/cm ³	
- Vapour density	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
Water:	Insoluble	
	reacts with water	
- Partition coefficient: n-octanol/water:	Not determined.	
- Viscosity:		
dynamic at 20 °C:	250 mPas (Brookfield)	
VOC (EU):	0.0 g/l	
VOC (EU):	0.00 %	
VOC (CH):	0.00 %	
- 9.2 Other information	No further relevant information available.	

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 alcohols, amines, aqueous acids and alkalis.
- Reacts with water forming carbon dioxide. In closed containers there is a danger of bursting, due to build up of pressure.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
- In case of fire, the following substance(s) may occur: Nitrogen oxides
- Additional information: Open and release pressure carefully with pressurised containers

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity

Harmful if inhaled.

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Trade name: Köracur TH 650 - Komp.B

 LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 1.5 mg/l (rat)

CAS: 9016-87-9 methylenediphenyl diisocyanate, isomeres and homologues

Inhalative LC50/4 h 1.5 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Suspected of causing cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation. - STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- **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.
- Additional ecological information:
- General notes: Do not allow product to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- **Recommendation** Disposal in accordance with official regulations

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Trade name: Köracur TH 650 - Komp.B

- EWC-Code(s):

To be treated as industrial waste: do not dispose of in or on soil, in watercourses or bodies, or through a sewage system. These EU refuse code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under item 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application: 080409* waste adhesives and sealants containing organic solvents or other dangerous substances 080410 waste adhesives and sealants other than those mentioned in 080409

Waste accruing during cleaning:

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances 08 04 12 adhesive and sealant sludges other than those mentioned in 080411

Waste packaging:

15 01 01 paper and cardboard packaging

- 15 01 02 plastic packaging
- 15 01 04 metallic packaging

15 01 10* packaging containing residues of or contaminated by dangerous substances.

- 14.1 UN-Number		
- ADR/RID/ADN, ADN, IMDG, IATA	Void	
- 14.2 UN proper shipping name - ADR/RID/ADN, ADN, IMDG, IATA	Void	
- 14.3 Transport hazard class(es)		
- ADR/RID/ADN, ADN, IMDG, IATA		
- Class	Void	
- 14.4 Packing group		
- ADR/RID/ADN, IMDG, IATA	Void	
- 14.5 Environmental hazards:		
- Marine pollutant:	No	
- 14.6 Special precautions for user	Not applicable.	
- 14.7 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
- Transport/Additional information:	Protect from moisture	
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- IATA

- Remarks:

not restricted

- UN "Model Regulation":

SECTION 15: Regulatory information

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

Void

- National regulations
- Information about limitation of use:
- Employment restrictions concerning young persons must be observed.
- 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.

For commercial use only.

- Department issuing SDS: Abteilung: EU Regulatory Engineering Adhesives (department: EU Regulatory Engineering Adhesives) 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern 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.