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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.03.2024 Version number 27 (replaces version 26) Revision: 01.03.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

• Trade name Konudur Robopress 07 - Komponente B

• CAS Number: 9016-87-9 • EC number: 202-966-0 • Index number: 615-005-01-6

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 Injektion

Polyurethane resin

Hardening agent/ Curing agent

· 1.3 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

· 1.4 Emergency telephone

number: Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +1 872 5888271 (MCR)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

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.

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

· 2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008 The substance is classified and labelled according to the GB CLP

regulation.

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· Hazard pictograms





· Signal word Danger

Hazard-determining

components of labelling: diphenylmethanediisocyanate,isomeres and homologues

· Hazard statements 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.

Do not breathe dust/fume/gas/mist/vapours/ · Precautionary statements P260

spray.

Wear protective gloves/protective clothing/eye P280

protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear

respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

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

tightly closed.

· Additional information: EUH204 Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before

industrial or professional use.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Designation: CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and

homologues

· Identification number(s):

· EC number: 202-966-0

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· *Index number:* 615-005-01-6

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information Remove, decontaminate and dispose of soiled, soaked clothing

and shoes immediately.

· After inhalation Remove person to fresh air, keep warm, allow to rest; if breathing

is difficult, seek medical attention.

· After skin contact In case of contact with skin, preferably wash with polyethylene

glycol-based cleaner or clean with plenty of warm water and soap.

Consult a doctor in case of skin reactions.

· After eye contact Rinse the eyes with open eyelids for a sufficiently long time (at

least 10 minutes) with water that is as lukewarm as possible.

Consult an ophthalmologist.

· After swallowing Do NOT induce vomiting. Rinse mouth with water. Medical

attention required.

· 4.2 Most important symptoms and effects, both acute and

delayed

Information for the doctor: The product irritates the respiratory tract and is a potential trigger for skin and respiratory sensitisation. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Depending on the extent of exposure and the symptoms, prolonged medical treatment may be necessary.

· 4.3 Indication of any immediate medical attention

and special treatment needed No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or

mixture Can be released in case of fire

Carbon monoxide (CO) Nitrogen oxides (NOx) Hydrogen cyanide (HCN)

Under certain fire conditions, traces of other toxic gases cannot be

excluded.

· 5.3 Advice for firefighters

· **Protective equipment:** Put on breathing apparatus.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Keep people at a distance and stay on the windward side.

Put on breathing apparatus.

· 6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

· 6.3 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.

· 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 information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure sufficient air exchange and/or extraction in the work areas.

Air extraction is required for spray application.

For solid products: Avoid dust formation and dust deposits. Air limit values mentioned in section 8 must be monitored.

At workplaces where isocyanate aerosols and/or vapours can occur in higher concentrations, targeted air extraction must be used to prevent the occupational hygiene limit value from being

exceeded. The air must be moved away from people.

For products containing solvents: Explosion protection required. The personal protective measures described in section 8 must be observed. The protective measures required when handling isocyanates must be observed. Avoid contact with skin and eyes and inhalation of vapours.

Keep away from food and beverages. Wash hands before breaks and at the end of work and apply skin protection ointment. Store work clothes separately. Remove soiled, soaked clothing immediately.

· 7.2 Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed. Further information on the storage conditions that must be observed for quality assurance reasons can be found in our technical data sheet.

Storage

Requirements to be met by storerooms and containers:

Store only in the original container.

Further information about storage conditions:

None.

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· Storage class

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

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

WEL | Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m3

Sen; as -NCO

· DNELs

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

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)

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

· 8.2 Exposure controls · Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and

hygienic measures Keep away from food, drink and animal feed.

Remove soiled, soaked clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

· Breathing equipment: Respiratory protection required at insufficiently ventilated

workplaces and when working with splashes. Fresh air masks or combination filters A2-P2 (EN529) are recommended for short-

term work.

If applicable, further recommendations for respiratory protection

can be found in the appendix.

In case of hypersensitivity of the respiratory tract (asthma, chronic

bronchitis), handling of the product is not recommended.

• Hand protection Suitable materials for protective gloves; EN 374:

Butyl rubber, nitrile rubber, chloroprene rubber (neoprene).

Note: suitable materials that provide sufficient protection for industrial cleaning with aprotic polar solvents (according to IUPAC

definition): butyl rubber.

In case of prolonged or frequently repeated contact, a glove with a protection class of 5 or higher is recommended (breakthrough time (Contd. on page 6)



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greater than 240 minutes according to EN374). For short-term contact, a glove with a protection class of 3 or higher is recommended (breakthrough time greater than 60 minutes according to EN374).

The thickness of the material is not the only criterion for the level of protection of a glove against a chemical substance. The protective effect also depends to a large extent on the type of glove material. Depending on the type and material, the thickness must be more than 0.35 mm to ensure adequate protection in the event of prolonged and frequent contact. Exceptions to this rule are multilayer gloves, which guarantee sufficient protection even with a thickness of less than 0.35 mm during prolonged wear. Other glove materials with a thickness of less than 0.35 mm only provide sufficient protection for short periods of wear.

For solvent-free products:

Example:

Polychloroprene - CR: thickness ≥0.5mm; breakthrough time

*≥*480min.

Nitrile rubber - NBR: thickness \geq 0.35mm; breakthrough time

≥480min.

Butyl rubber - IIR: thickness \ge 0.5mm; breakthrough time \ge 480min. Fluoro rubber - FKM: thickness \ge 0.4mm; breakthrough time

≥480min.

Recommendation: Dispose of contaminated gloves.

· Material of gloves

Polychloroprene - CR Nitrile rubber - NBR Butyl rubber - IIR Fluoro rubber - FKM

· Penetration time of glove material

Polychloroprene - CR: thickness ≥0.5mm; breakthrough time

≥480min.

Nitrile rubber - NBR: thickness ≥0.35mm; breakthrough time

≥480min.

Butyl rubber - IIR: thickness \geq 0.5mm; breakthrough time \geq 480min. Fluoro rubber - FKM: Thickness \geq 0.4mm; Breakthrough time

≥480min.

· Eye/face protection · Body protection:

Safety goggles with side protection in accordance with EN 166.

Use chemical-resistant protective clothing.

In case of hypersensitivity of the skin, handling the product is not

recommended.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

· Colour: Dark brown · Smell: Characteristic

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Melting point/freezing point: Not determined Boiling point or initial boiling point and boiling range 190 ° C (CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues) >200 °C · Flash point: ° C (CAS: 9016-87-9 Auto-ignition temperature: 400 diphenylmethanediisocyanate, isomeres and homologues) · pH Not determined. Viscosity: · dynamic at 20 °C: 200 mPas · Solubility · Water: Hydrolized Not miscible or difficult to mix Fully miscible · Steam pressure at 25 °C: 0.0002 h P a (CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues) · Density and/or relative density · Density at 20 °C 1.24 g/cm³ · 9.2 Other information · Appearance: · Form: Liquid · Important information on protection of health and environment, and on safety. · Explosive properties: Product is not explosive. · Molecular weight 360 g/mol · Information with regard to physical hazard classes · Explosives Void Flammable gases Void Void · Aerosols · 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

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Desensitised explosives

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.

· 10.3 Possibility of hazardous

reactions Reacts with amines

• 10.4 Conditions to avoid No further relevant information available. • 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous

decomposition products: No dangerous decomposition products known

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:

Oral	LD50	>10000 mg/kg (Rat)
Dermal		>5000 mg/kg (Kan)
	LC50/4 h	~450 mg/l (Rat)

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

Oral	LD50	>10000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rab)
Inhalative	LC50/4 h	~450 mg/l (Rat)

Skin corrosion/irritation
 Serious eye damage/irritation
 Causes skin 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.

• 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.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

Substance is not listed.

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.

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: 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 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.

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

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

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· 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 accordi	ng to	
IMO instruments	Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/ legislation specific for the

substance or mixture No further relevant information available.

· Poisons Act

· Regulated explosives precursors

Substance is not listed.

Regulated poisons

Substance is not listed.

· Reportable explosives precursors

Substance is not listed.

· Reportable poisons

Substance is not listed.

· 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.

· Department issuing data

specification sheet: 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 Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances (Contd. on page 11)



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CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 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.

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