

Trade name: JACKODUR Montagekleber**Product no.:** JIN-009**Current version :** 5.0.0, issued: 30.11.2023**Replaced version:** 4.0.2, issued: 14.11.2022**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****JACKODUR Montagekleber****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Adhesives

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Jackon Insulation GmbH
Ritzlebener Straße 1
D-39619 Arendsee

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Information provided by / telephone

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Advice on Safety Data Sheet

info@jackodur.com

1.4 Emergency telephone number

+49 (0)3 90 36 / 9 60 - 0

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Carc. 2; H351

Eye Irrit. 2; H319

Resp. Sens. 1; H334

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT RE 2; H373

STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

diphenylmethanediisocyanate, isomeres and homologues

Hazard statement(s)

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

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

Precautionary statement(s)

Trade name: JACKODUR Montagekleber**Product no.:** JIN-009**Current version :** 5.0.0, issued: 30.11.2023**Replaced version:** 4.0.2, issued: 14.11.2022**Region:** GB

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

Supplemental label elements

'As from 24 August 2023 adequate training is required before industrial or professional use'

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Mixture (preparation)

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	diphenylmethanediisocyanate, isomers and homologues		
	9016-87-9 - 615-005-00-9 -	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 4*; H332 Resp. Sens. 1; H334 STOT SE 3; H335 Carc. 2; H351 STOT RE 2*; H373**	>= 25.00 - < 50.00 wt%
2	propylene carbonate		
	108-32-7 203-572-1 607-194-00-1 -	Eye Irrit. 2; H319	< 5.00 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*, **, ***, ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C, 2	Resp. Sens. 1; H334: C >= 0.1% Skin Irrit. 2; H315: C >= 5% Eye Irrit. 2; H319: C >= 5% STOT SE 3; H335: C >= 5%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. If unconscious place in recovery position and seek medical advice.

After skin contact

Affected skin should first be dabbed with cotton wool, then washed with plenty of water and a mild cleanser.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Do not induce vomiting. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a doctor immediately.

Trade name: JACKODUR Montagekleber

Product no.: JIN-009

Current version : 5.0.0, issued: 30.11.2023

Replaced version: 4.0.2, issued: 14.11.2022

Region: GB

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam; Dry chemical extinguisher; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Nitrogen oxides (NO_x); Hydrogen cyanide (HCN); Combustion products of this material have to be classed invariably as respiratory poison.

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Run-off water from fire fighting must not be discharged into drains or enter surface water. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale vapours.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Store in a dry place.

Recommended storage temperature

Value	10	-	50	°C
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Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

None known

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Trade name: JACKODUR Montagekleber

Product no.: JIN-009

Current version : 5.0.0, issued: 30.11.2023

Replaced version: 4.0.2, issued: 14.11.2022

Region: GB

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	
	List of approved workplace exposure limits (WELs) / EH40		
	Isocyanates, all (as -NCO) Except methyl isocyanate		
	WEL short-term (15 min reference period)	0.07	mg/m ³
	WEL long-term (8-hr TWA reference period)	0.02	mg/m ³
	Comments	Sen	

8.2 Exposure controls**Appropriate engineering controls**

In spray applications or raw material temperatures over 40 °C, air extraction is necessary.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Respiratory protection mask with combination filter A/P2.

Eye / face protection

Safety glasses (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile		
Material thickness	>=	0.35	mm
Breakthrough time	>=	480	min

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation	
solid	
Form	
pasty	
Colour	
beige	
Odour	
characteristic	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
Comments	As from approx. 260° polymerisation, CO ₂ separation.
Flash point	
Not applicable	
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	
No data available	

Trade name: JACKODUR Montagekleber

Product no.: JIN-009

Current version : 5.0.0, issued: 30.11.2023

Replaced version: 4.0.2, issued: 14.11.2022

Region: GB

Upper explosion limit		
No data available		
Vapour pressure		
No data available		
Relative vapour density		
No data available		
Relative density		
No data available		
Density		
Value	1.51	g/cm³
Reference temperature	20	°C
Solubility in water		
Comments	immiscible	
Solubility		
No data available		
Partition coefficient n-octanol/water (log value)		
No data available		
Kinematic viscosity		
No data available		
Particle characteristics		
No data available		

9.2 Other information

Other information		
No data available.		

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Temperatures > 50°C. Formation of CO₂ upon contact with water; development of overpressure in closed containers is possible.

10.5 Incompatible materials

Amines; Alcohols; Acids; Bases; Water

10.6 Hazardous decomposition products

Nitrous oxides (NO_x); Hydrogen cyanide (HCN)

SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Product Name		
1	JACKODUR Montagekleber		
LD50	>	2000	mg/kg
Species	rat		
Source	manufacturer		
Comments	Informations concern to main component.		
Acute dermal toxicity			
No	Product Name		
1	JACKODUR Montagekleber		
LD50	>	9400	mg/kg
Species	rabbit		
Source	manufacturer		
Comments	Informations concern to main component.		
Acute inhalational toxicity (result of the ATE calculation for the mixture)			
No	Product Name		

Trade name: JACKODUR Montagekleber**Product no.:** JIN-009**Current version :** 5.0.0, issued: 30.11.2023**Replaced version:** 4.0.2, issued: 14.11.2022**Region:** GB

1	JACKODUR Montagekleber
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity	
No	Product Name
1	JACKODUR Montagekleber
LC50	0.31 mg/l
Duration of exposure	4 h
Species	rat
Source	manufacturer
Comments	Informations concern to main component.

Skin corrosion/irritation	
No	Product Name
1	JACKODUR Montagekleber
Source	manufacturer
Evaluation	irritant

Serious eye damage/irritation	
No	Product Name
1	JACKODUR Montagekleber
Source	manufacturer
Evaluation	irritant

Respiratory or skin sensitisation	
No	Product Name
1	JACKODUR Montagekleber
Route of exposure	Skin
Source	manufacturer
Evaluation	sensitizing

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No	Product Name
1	JACKODUR Montagekleber
Comments	Carc. Cat. 3

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Irritates the eyes and the skin. Irritates respiratory tract. Sensitisation possible through inhalation. Possibility of sensitisation through skin contact.	

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

Exercise customary precautions when handling chemicals.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)	
No	Product Name
1	JACKODUR Montagekleber
LC0	> 1000 mg/l
Duration of exposure	96 h
Species	Brachydanio rerio

Trade name: JACKODUR Montagekleber**Product no.:** JIN-009**Current version :** 5.0.0, issued: 30.11.2023**Replaced version:** 4.0.2, issued: 14.11.2022**Region:** GB

Reference substance	related to the main component
Method	OECD 203
Source	manufacturer

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No	Product Name
1	JACKODUR Montagekleber
EC50	> 1000 mg/l
Duration of exposure	24 h
Species	Daphnia magna
Reference substance	related to the main component
Method	OECD 202
Source	manufacturer
NOEC	> 10 mg/l
Duration of exposure	21 d
Species	Daphnia magna
Reference substance	related to the main component
Method	OECD 211
Source	manufacturer

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

Physico-chemical eliminability	
No	Product Name
1	JACKODUR Montagekleber
Comments	The product reacts with water at the interface forming CO ₂ and a solid insoluble product with high melting point (polyurea).

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

Mobility in soil	
No	Product Name
1	JACKODUR Montagekleber
Comments	Cures in humidity; remains on the surface of the soil.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Other adverse effects
Damage may occur from the mechanical impact of the product (e.g. agglutinations).

12.8 Other information

Other information
Do not discharge into surface waters/groundwater.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Trade name: JACKODUR Montagekleber**Product no.:** JIN-009**Current version :** 5.0.0, issued: 30.11.2023**Replaced version:** 4.0.2, issued: 14.11.2022**Region:** GB**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-	56, 74, 75, 77
2	propylene carbonate	108-32-7	203-572-1	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Observe employment restrictions for young people.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H332 Harmful if inhaled.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

2 The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Creation of the safety data sheet

UMCO GmbH

Trade name: JACKODUR Montagekleber

Product no.: JIN-009

Current version : 5.0.0, issued: 30.11.2023

Replaced version: 4.0.2, issued: 14.11.2022

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 622327