

according to Regulation (EC) No 1907/2006

PU nat-KA 65

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

1.1. Product identifier

PU nat-KA 65

UFI: N300-P0FQ-S008-GAW1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Hot melt glue pucks for Festool Conturo.

For professional users only

Uses advised against

No data available.

1.3. Details of the supplier of the safety data sheet

Company name: Festool GmbH Street: Wertstraße 20

Place: D-73240 Wendlingen

Telephone: +49(0)7024 804 0 Telefax: +49 (0)7024 804 600

Internet: www.festool.com

Responsible Department:

1.4. Emergency telephone
number:

Responsible for the safety data sheet: sds@gbk-ingelheim.de
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111
Emergency telephone :+49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Respiratory or skin sensitisation: Resp. Sens. 1 Respiratory or skin sensitisation: Skin Sens. 1

Carcinogenicity: Carc. 2 Hazard Statements: Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Diphenylmethane-2,4'-diisocyanate

Signal word: Danger

Pictograms:





Hazard statements

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.



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H351 Suspected of causing cancer.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P362+P364 Take off contaminated clothing and wash it before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P501 Dispose of contents/container to in accordance with local and national regulations.

Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Adhesive of polyurethane

Hazardous components

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	GHS Classification			
5873-54-1	Diphenylmethane-2,4'-diisocyanate			1 - < 5 %
	227-534-9	615-005-00-9	01-2119480143-45	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

After inhalation

Ensure of fresh air.

Consult a physician.

In case of the person being unconscious put him/her in a stable side position.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

After contact with molten product, cool skin area rapidly with cold water.

Do not take off solidified product from skin.

Consult a physician.

After contact with eyes

Rinse thoroughly with plenty of water, also under the eyelids.

Consult a physician.

After ingestion

In the event of persistent symptoms receive medical treatment.





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4.2. Most important symptoms and effects, both acute and delayed

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

carbon dioxide (CO2), Dry powder, water spray jet.

Use in case of large fire: water spray jet, Alcohol-resistant foam.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire may produce: carbon dioxide (CO2), Carbon monoxide (CO), nitrous oxides (NOx), Hydrogen cyanide (HCN). In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Allow to solidify.

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Information for safe handling look up section 7.

Information for personal protective equipment look up chapter 8.

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for suitable extraction / ventilation at processing machines.

Store in cool, dry place in tightly closed containers.

When using do not eat, drink or smoke.

Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities



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Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

Keep in a dry place.

Further information on storage conditions

Protect from atmospheric moisture and water.

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
5873-54-1	Diphenylmethane-2,4'-diisocyanate			
Worker DNEL	., acute	dermal	systemic	50 mg/kg bw/day
Worker DNEL	., acute	inhalation	systemic	0,1 mg/m³
Worker DNEL	., acute	dermal	local	28,7 mg/cm ²
Worker DNEL	., acute	inhalation	local	0,1 mg/m³
Worker DNEL	., long-term	dermal	systemic	0 mg/kg bw/day
Worker DNEL	., long-term	inhalation	systemic	0,05 mg/m³
Worker DNEL, long-term		dermal	local	0 mg/cm ²
Consumer DNEL, acute		dermal	systemic	25 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	0,05 mg/m³
Consumer DNEL, acute		oral	systemic	20 mg/kg bw/day
Consumer DNEL, acute		dermal	local	17,2 mg/cm ²
Consumer DN	NEL, long-term	dermal	local	0 mg/cm ²
Consumer DNEL, long-term		dermal	systemic	0 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,025 mg/m³
Consumer DNEL, long-term		oral	systemic	0 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	0,025 mg/m³
Worker DNEL, long-term		inhalation	local	0,05 mg/m³

PNEC values

CAS No	Substance	
Environmental compartment Val		Value
5873-54-1 Diphenylmethane-2,4'-diisocyanate		
Freshwater > 1 mg/l		> 1 mg/l
Marine water > 0,1 mg/l		> 0,1 mg/l
Micro-organisms in sewage treatment plants (STP) > 1 mg/l		> 1 mg/l
Soil > 1 mg/kg		> 1 mg/kg

Additional advice on limit values

No data available





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8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated soaked clothing immediately.

Wash hands before breaks and immediately after handling the product.

Clean contaminated clothes by vacuuming them, do not scrub or brush them.

Melt: Avoid contact with the skin.

When using do not eat, drink or smoke.

Do not inhale gases/vapours/aerosols.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves (EN 374): leather, Thick fabric.

When handling hot melt, wear heat-proof protective gloves.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Respiratory protection

Use suitable breathing apparatus if there is inadequate ventilation. (A/B/P2)

Use protective face mask (EN 149).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Colour: according to product specification

Odour: characteristic pH-Value: Not applicable.

Changes in the physical state

Melting point: Not determined.

Initial boiling point and boiling range: $> 230 \,^{\circ}\text{C}$ Flash point: $> 200 \,^{\circ}\text{C}$

Sustaining combustion: No data available

Flammability

Solid: Not determined.
Gas: Not determined.

Explosive properties

The product is not explosive.

Lower explosion limits: Not determined. Upper explosion limits: Not determined.

Ignition temperature: 345 °C

Auto-ignition temperature

Solid: The product is not self-igniting





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Gas: The product is not self-igniting

Decomposition temperature: > 220 °C

Oxidizing properties

No information available.

Vapour pressure: (at 20 °C) 0 hPa

Density (at 20 °C): 1,3 g/cm³ Water solubility: insoluble

Solubility in other solvents

No information available.

Partition coefficient: Not determined. Viscosity / dynamic: Not applicable.

Viscosity / kinematic: Not applicable.

Vapour density:

Evaporation rate:

Not applicable.

Not applicable.

Evaporation rate: Not applicable.

Solvent content: Organic solvent: 0,0%

9.2. Other information

Solid content: 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No decomposition if used as directed.

To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

If product is heated above decomposition temperature toxic vapours may be released.

Reactions with water. Reacts with: Humid air.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Reacts with: Water, Humid air.

10.6. Hazardous decomposition products

nitrous oxides (NOx), Hydrogen cyanide (HCN), Isocyanates, Carbon monoxide (CO), carbon dioxide (CO2). Risk of formation of toxic pyrolysis products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if inhaled.





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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
5873-54-1	Diphenylmethane-2,4'-diisocyanate					
	oral	LD50 mg/kg	> 2000	Rat	OECD 401	
	dermal	LD50 mg/kg	> 9400	Rabbit	OECD 404	
	inhalation vapour	ATE	11 mg/l			
	inhalation (4 h) aerosol	LC50	0,31 mg/l	Rat	OECD 403	

Irritation and corrosivity

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

Sensitising effects

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethane-2,4'-diisocyanate)

May cause an allergic skin reaction. (Diphenylmethane-2,4'-diisocyanate)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Diphenylmethane-2,4'-diisocyanate)

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

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 information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
5873-54-1	Diphenylmethane-2,4'-diisocyanate						
	Acute fish toxicity	LC50 > mg/l	> 1000	96 h	Brachydanio rerio	OECD 203	
	Acute algae toxicity	ErC50 > mg/l	> 1640		Scenedesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 > mg/l	> 1000	48 h	Daphnia magna	OECD 202	
	Acute bacteria toxicity	(> 100 mg/	1)	3 h	Activated sludge	OECD 209	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available



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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6. Other adverse effects

Low hazard to waters.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Where possible recycling is preferred to disposal. Waste disposal according to local regulations.

List of Wastes Code - residues/unused products

080409

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

200128

MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins other than those mentioned in 20 01 27

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Uncontaminated packaging may be taken for recycling.

Waste disposal according to local regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

14.4. I deking group.

Inland waterways transport (ADN)

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. **14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

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14.1. UN number:
 14.2. UN proper shipping name:
 14.3. Transport hazard class(es):
 14.4. Packing group:
 No dangerous good in sense of this transport regulation.
 No dangerous good in sense of this transport regulation.
 No dangerous good in sense of this transport regulation.
 No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 56: Diphenylmethane-2,4'-diisocyanate 2004/42/EC (VOC): EU: 0,00 %

Switzerland: 0,00 % USA: 0,0 g/l (0,00 lb/gl)

Information according to 2012/18/EU

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

National regulatory information

Employment restrictions: Observe employment restrictions under the Maternity Protection Directive

(92/85/EEC) for expectant or nursing mothers.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Changes in chapter: UFI

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intéri IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative





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LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H332	
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method

Relevant H and EUH statements (number and full text)

Cic valit il alla L	ion statements (number and rail text)
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.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

'The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

