

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

PU NAT-KA 65/4

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 UK Ltd
	Gottlieb Stoll House
Street:	1 Anglo Saxon Way
Place:	GB Rougham, Bury St Edmunds, IP30 9XH
Telephone:	+44 (0) 1284 760791
E-mail:	info-uk@festool.com
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de
	In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

1.4. Emergency telephone number:**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**GB CLP Regulation****Special labelling of certain mixtures**

EUH204	Contains isocyanates. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Adhesive of polyurethane

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 2 of 10

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
5873-54-1	Diphenylmethane-2,4'-diisocyanate			< 0,1 %
	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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
5873-54-1	227-534-9	Diphenylmethane-2,4'-diisocyanate	< 0,1 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 0,31 mg/l (dusts or mists); dermal: LD50 = > 9400 mg/kg; oral: LD50 = > 2000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 Resp. Sens. 1; H334: >= 0,1 - 100 STOT SE 3; H335: >= 5 - 100		

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.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

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.

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 3 of 10

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 (NO_x), 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

General advice

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

Other information

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.

Advice on general occupational hygiene

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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Keep in a dry place.

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 4 of 10

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/cm²
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/cm²
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/cm²
Consumer DNEL, long-term		dermal	local	0 mg/cm²
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	Value	
5873-54-1	Diphenylmethane-2,4'-diisocyanate	
Freshwater	> 1 mg/l	
Marine water	> 0,1 mg/l	
Micro-organisms in sewage treatment plants (STP)	> 1 mg/l	
Soil	> 1 mg/kg	

Additional advice on limit values

No data available

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 5 of 10

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

Changes in the physical state

Melting point/freezing point:	> 70 °C
Boiling point or initial boiling point and boiling range:	> 250 °C
Flash point:	> 200 °C

Flammability

Solid/liquid:	Not determined.
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Explosive properties

The product is not explosive.

Lower explosion limits:	Not determined.
Upper explosion limits:	Not determined.
Auto-ignition temperature:	345 °C

Self-ignition temperature

Solid:	The product is not self-igniting
Gas:	The product is not self-igniting

Decomposition temperature:	> 250 °C
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pH-Value:	7
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Viscosity / dynamic:	Not applicable.
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Viscosity / kinematic:	Not applicable.
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Water solubility:	insoluble
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Solubility in other solvents

No information available.

Partition coefficient n-octanol/water:	Not determined.
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Vapour pressure: (at 20 °C)	< 0,01 hPa
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Density (at 20 °C):	1,28 g/cm ³
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Relative vapour density:	Not applicable.
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9.2. Other information

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 6 of 10

Information with regard to physical hazard classes

Sustaining combustion: No data available

Oxidizing properties
No information available.

Other safety characteristics

Solvent content: Organic solvent: 0,0%

Solid content: 100 %

Evaporation rate: Not applicable.

Further Information

No data available

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 hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.
Contains isocyanates. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 7 of 10

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.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

PBT: Not applicable.

vPvB: Not applicable.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. 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

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 8 of 10

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 or ID 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.

Inland waterways transport (ADN)

14.1. UN number or ID 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 or ID 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.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID 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.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

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 75

Directive 2004/42/EC on VOC in paints and varnishes:	EU: 0,00 % Switzerland: 0,00 % USA: 0,0 g/l (0,00 lb/gl)
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 9 of 10

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Changes in section: 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 intérieure
 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

LD = Lethal dose
 LC = Lethal concentration
 EC = Effect concentration
 IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and EUH statements (number and full 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.
EUH210	Safety data sheet available on request.

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)

PU NAT-KA 65/4

Revision date: 29.04.2024

Product code: 11912-0037

Page 10 of 10

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