

SECTION 01: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:**
STAUF PUK 446 Component A
- **Article number:**
124220
- **Product Group:**
2-component polyurethane adhesive
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category**
PC1 Adhesives, sealants
- **Application of the substance / the preparation**
Adhesives
- **Remark:**
Restricted to professional users.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
+49-(0)2739-301-0
+49-(0)2739-301-200
- **1.4 Further information obtainable from:**
quality management
QS@stauf.de
- **1.5 Emergency telephone number:**
CARECHEM24- EU: +44 1235 239670
CARECHEM24 International, +44 1865 407333

SECTION 02: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Void
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**
Void
- **Signal word**
Void
- **Hazard statements**
Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.

PRODUCT : STAUF PUK 446 Component A

(Contd. of page 1)

SECTION 03: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:**
Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**
Void
- **SVHC**
Void
- **Additional information:**
For the wording of the listed risk phrases refer to section 16.
Observe the safety data sheet for the hardener component.

SECTION 04: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
No special measures required.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash with water and soap.
Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Remove contact lenses, if present and easy to do.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Rinse the mouth with water.
- **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**
No further relevant information available.

SECTION 05: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
Do not inhale explosion gases or combustion gases.
- **Protective equipment:**
Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- **6.2 Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 3)

PRODUCT : STAUF PUK 446 Component A

(Contd. of page 2)

- **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 07: Handling and storage

- **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:**
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
No special requirements.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in dry conditions.
- **7.3 Specific end use(s)**
No further relevant information available.

SECTION 08: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work, use skin care products.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
- **Respiratory protection: Not necessary if room is well-ventilated.**
- **Protection of hands: After use of gloves apply skin-cleaning agents and skin cosmetics.**
- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection Tightly sealed goggles**
- **Body protection: Protective work clothing**

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 16.12.2024

Printing date: 16.12.2024

PRODUCT : STAUF PUK 446 Component A

(Contd. of page 3)

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Viscous
Colour:	Beige
Odour:	Weak, characteristic
Odour threshold:	Characteristic
Important information on protection of health and environment, and on pH	safety.
pH	Not determined.

Boiling point or initial boiling point and boiling range	351 °C
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Flash point:	255 °C
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Flammability	Not applicable.
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Ignition temperature:	451 °C
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Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Not determined.
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Explosive properties:	Not determined.
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Lower and upper explosion limit

Lower:	Not determined.
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Upper:	Not determined.
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Vapour pressure:	at 20 °C	1,000 hPa
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Density:	1,7500 - 1,8000 g/cm ³
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Vapour density	Not determined.
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Solubility

water:	Not miscible or difficult to mix.
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Partition coefficient n-octanol/water (log value)	Not determined.
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Viscosity:

Dynamic:	at 20 °C	140 - 200 Pa.s
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Solvent content:

VOC (EC)	0,00 %
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9.2 Other information	No further relevant information available.
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Density and/or relative density	
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Physical state	Fluid
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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
No further relevant information available.
- **10.2 Chemical stability**
Stable if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
No dangerous reactions known.
- **10.4 Conditions to avoid**
Moisture and water.
- **10.5 Incompatible materials:**
No further relevant information available.
- **Dangerous reactions**
No dangerous reactions known.
- **10.6 Hazardous decomposition products:**
Does not decompose when used like intended.

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(Contd. on page 5)

PRODUCT : STAUF PUK 446 Component A

(Contd. of page 4)

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation**
No irritant effect.
- **Serious eye damage/irritation**
Direct contact to eyes can be irritating.
- **Respiratory or skin sensitisation**
No sensitising effects known.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.

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:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.
- **12.7 Other adverse effects**
No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **European waste catalogue**
08
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04
wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10
waste adhesives and sealants other than those mentioned in 08 04 09
- **Uncleaned packaging:**
- **Recommendation:**

(Contd. on page 6)

PRODUCT : STAUF PUK 446 Component A

(Contd. of page 5)

Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

- **14.1 UN number or ID number**

<i>ADR</i>	Void
<i>IMDG</i>	Void
<i>IATA</i>	Void
- **14.2 UN proper shipping name**

<i>ADR</i>	Void
<i>IMDG</i>	Void
<i>IATA</i>	Void
- **14.3 Transport hazard class(es)**

<i>ADR</i>	
<i>Class</i>	Void
<i>IMDG</i>	
<i>Class</i>	Void
<i>IATA</i>	
<i>Class</i>	Void
- **14.4 Packing group**

<i>ADR</i>	Void
<i>IMDG</i>	Void
<i>IATA</i>	Void
- **14.5 Environmental hazards:**
Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments**
Not applicable.

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the ingredients is listed.
- **Substances of very high concern (SVHC) according to UK REACH**
None of the ingredients is listed.
- **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.

- **Department issuing MSDS:**
quality management
- **Date of previous version:**
24.01.2020

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31



Revision: 16.12.2024

Printing date: 16.12.2024

PRODUCT : STAUF PUK 446 Component A*(Contd. of page 6)*

- **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- VOC: Volatile Organic Compounds (USA, EU)
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**

SECTION 01: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:**
STAUF Hardener 5
- **Article number:**
124210
- **Product Group:**
Isocyanate hardener
- **UFI:**
UYY2-HCJ0-Q009-H9UK
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category**
PC1 Adhesives, sealants
- **Application of the substance / the preparation**
Hardening agent/ Curing agent
- **Remark:**
Restricted to professional users.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
STAUF Klebstoffwerk GmbH
Oberhausener Strasse 1
57234 Wilnsdorf, Germany
+49-(0)2739-301-0
+49-(0)2739-301-200
- **1.4 Further information obtainable from:**
quality management
QS@stauf.de
- **1.5 Emergency telephone number:**
CARECHEM24- EU: +44 1235 239670
CARECHEM24 International, +44 1865 407333

SECTION 02: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08

Resp. Sens. 1 - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2 - H351 Suspected of causing cancer.
STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 - H332 Harmful if inhaled.
Skin Irrit. 2 - H315 Causes skin irritation.
Eye Irrit. 2 - H319 Causes serious eye irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.
STOT SE 3 - H335 May cause respiratory irritation.

(Contd. on page 2)

PRODUCT : STAUF Hardener 5

(Contd. of page 1)

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



GHS08 GHS07

- **Signal word**
Danger

- **Hazard-determining components of labelling:**
diphenylmethanediisocyanate, isomeres and homologues
- **Hazard statements**
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.
EUH204 Contains isocyanates. May produce an allergic reaction.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P260 Do not breathe dust/fume/gas/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 lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.

SECTION 03: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:**
Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

<i>CAS Number</i>		<i>%</i>
	<i>Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(piscyanatobenzyl) phenyl isocyanate</i>	<i>70,00- 85,00</i>
	<i>EC number: 905-806-4</i>	
	<i>Carc. 2</i>	

(Contd. on page 3)

PRODUCT : STAUF Hardener 5*(Contd. of page 3)*

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

- **5.3 Advice for firefighters**
Do not inhale explosion gases or combustion gases.
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 06: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 07: Handling and storage

- **7.1 Precautions for safe handling**
Keep away from heat and direct sunlight.
Use only in well ventilated areas.
Avoid contact with eyes, skin and clothes.
- **Information about fire - and explosion protection:**
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
No special requirements.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
Store in dry conditions.
- **7.3 Specific end use(s)**
No further relevant information available.

SECTION 08: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace**
9016-87-9 *diphenylmethanediisocyanate, isomers and homologues*

WEL

<i>Short-term value</i>	<i>0,07</i>	<i>mg/m3</i>
<i>Long-term value</i>	<i>0,02</i>	<i>mg/m3</i>
<i>Sen; as -NCO</i>		

(Contd. on page 5)

PRODUCT : STAUF Hardener 5

(Contd. of page 4)

• **DNELs**

**Reaction mass of 4,4'-methylenediphenyl
diisocyanate and o-(p-isocyanatobenzyl) phenyl
isocyanate**

Inhalative, DNEL: 0,05 mg/m³ (human being)Inhalative, DNEL: 0,1 mg/m³ (Workers)

**9016-87-9 diphenylmethanediisocyanate, isomeres and
homologues**

Dermal, DNEL: 0,05 mg/kg (Workers)

long- term

• **PNECs**

**Reaction mass of 4,4'-methylenediphenyl
diisocyanate and o-(p-isocyanatobenzyl) phenyl
isocyanate**

PNEC: 1 mg/l (freshwater)

PNEC: 0,1 mg/l (marinewater)

PNEC: 1 mg/kg (soil)

**9016-87-9 diphenylmethanediisocyanate, isomeres and
homologues**

PNEC: 1 mg/l (freshwater)

PNEC: 0,1 mg/l (marinewater)

PNEC: 1 mg/l

PNEC: 1 mg/kg (soil)

• **Additional information:**

The lists valid during the making were used as basis.

• **8.2 Exposure controls**• **Individual protection measures, such as personal protective equipment**• **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work, use skin care products.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes, skin and clothes.

• **Respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory protective device in case of insufficient ventilation.**• **Protection of hands: After use of gloves apply skin-cleaning agents and skin cosmetics.**• **Material of gloves**

Chloroprene rubber, CR

Butyl rubber, BR

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye/face protection Tightly sealed goggles**• **Body protection: Protective work clothing****SECTION 09: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Characteristic
Important information on protection of health and environment, and on	safety.
pH	Not determined.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 17.12.2024

Printing date: 17.12.2024

PRODUCT : STAUF Hardener 5

(Contd. of page 5)

Melting point/freezing point:	5 °C
Boiling point or initial boiling point and boiling range	> 300 °C
Flash point:	> 200 °C
Flammability	Not applicable.
Ignition temperature:	400 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density:	1,2000 - 1,2500 g/cm ³
Vapour density	Not determined.
Solubility	
water:	reacts s.Point 10
Partition coefficient n-octanol/water (log value)	Not determined.
Viscosity:	
Dynamic:	at 25 °C 15 - 35 mPa.s
Solvent content:	
VOC (EC)	0,00 %
9.2 Other information	No further relevant information available.
Density and/or relative density	
Physical state	Fluid

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
Reacts with water, acids, alcohols, amines, bases and oxidants.
- **10.2 Chemical stability**
Stable if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Exothermic reaction with amines and alcohols; reacts with water forming CO₂; in closed containers, risk of bursting owing to increase of pressure.
- **10.4 Conditions to avoid**
Moisture and water.
Protect from heat and direct sunlight.
- **10.5 Incompatible materials:**
Water, alcohols, amines.
- **Dangerous reactions**
No dangerous reactions known.
- **10.6 Hazardous decomposition products:**
Does not decompose when used like intended.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate
Oral, LD50: > 2000 mg/kg (rat)

(Contd. on page 7)

PRODUCT : STAUF Hardener 5

(Contd. of page 6)

(Read-across based on methylenediphenyl diisocyanate - EC 905-806-4)

Dermal, LD50: > 9400 mg/kg (Rabbit)

9016-87-9 **diphenylmethanediisocyanate, isomeres and homologues**

Oral, LD50: >2000 mg/kg (rat)

Dermal, LD50: >9400 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
Sensitisation possible through inhalation.
Sensitisation possible through skin contact.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Carc. 2
- **Carcinogenicity**
Suspected of causing cancer.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenyl isocyanate

EC50 48h: > 1000 mg/l (daphnie)
LC50/ 96h: > 1000 mg/l (fish)
EC50/72h: > 1640 mg/l (alga)

9016-87-9 **diphenylmethanediisocyanate, isomeres and homologues**

EC50 48h: >1000 mg/l (daphnie)
LC50/ 96h: > 1000 mg/l (Brachydanio rerio)
LC0: >1000 mg/l (fish)
- **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:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**

(Contd. on page 8)

PRODUCT : STAUF Hardener 5

(Contd. of page 7)

Not applicable.

- **12.7 Other adverse effects**
No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste. Unhardened product residues are Special Waste. Disposal must be made according to official regulations.

- **European waste catalogue**

07
WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02
wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 08
other still bottoms and reaction residues

- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations. Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

- **14.1 UN number or ID number**

ADR Void

IMDG Void

IATA Void

- **14.2 UN proper shipping name**

ADR Void

IMDG Void

IATA Void

- **14.3 Transport hazard class(es)**

ADR

Class Void

IMDG

Class Void

IATA

Class Void

- **14.4 Packing group**

ADR Void

IMDG Void

IATA Void

- **14.5 Environmental hazards:**

Not applicable.

- **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

PRODUCT : STAUF Hardener 5

(Contd. of page 8)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **Waterhazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the ingredients is listed.
- **Substances of very high concern (SVHC) according to UK REACH**
None of the ingredients is listed.
- **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.

- **Relevant phrases**

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.
- **Department issuing MSDS:**
quality management
- **Date of previous version:**
11.08.2022
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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
- *** Data compared to the previous version altered.**