

SCHÖNOX PU 900 Resin

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

1.1 Product identifier

Product name : SCHÖNOX PU 900 Resin
Product description : 2-Component Polyurethan adhesive

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

Identified uses : Building and construction work (SU19)
Professional uses: Public domain (administration, education, entertainment, services, craftsmen) (SU22)
Industrial uses: Uses of substances as such or in preparations* at industrial sites (SU03)

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier : SCHÖNOX GmbH
Alfred-Nobel-Straße 6
48720 Rosendahl
Germany

Phone: +49 (0) 2547 - 910-0
Fax: +49 (0) 2547 - 910-101
E-mail: info@schoenox.de

e-mail address of person responsible for this SDS : info@schoenox.de

Emergency telephone number : +49-170-2255126

1.4 National advisory body/Poison Centre

Germany : +49 (0) 30 192 40 (Poison Center Berlin)
Austria : +43 (0) 1 406 43 43 (VIZ)
Switzerland : +41 (0) 44 251 51 51 (STIZ)
Netherlands : +31 (0) 30 274 88 88 (NVIC)
Belgium : +32 (0) 70 245 245 (Antipoison Center)
Great Britain (GB) : +44 (0) 870 600 6266 (NPIS)
France : +33 (0) 1 45 42 59 59 (INRS/ORFILA)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : This product is not classified according to EU legislation.

Classification according to Directive 1999/45/EC [DPD]

Classification : Not classified.
Physical/chemical hazards : Not applicable.
Human health hazards : Not applicable.
Environmental hazards : Not applicable.

2.2 Label elements

Hazard pictograms : None Hazard pictograms
Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements :
Not applicable.

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SECTION 2: Hazards identification

Supplemental label elements : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

See Section 11 for more detailed information on health effects and symptoms.
See Section 16 for the full text of the R phrases or H statements declared above.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
Recommended: alcohol-resistant foam, CO₂, powders, water spray.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

- Protective measures** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

- Recommendations** : Not available.

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

8.1 Control parameters

Occupational exposure limits (OEL)

OEL Notes : There are no data available on the mixture itself. Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Derived effect levels (DNEL = Derived No Effect Level)

No DELs available.

Predicted effect concentrations (PNEC = Predicted No Effect Concentration)

No PECs available.

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Take off contaminated clothing and wash before reuse.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Hand protection : Wear protective gloves. For prolonged or repeated handling, use the following type of gloves:
viton gloves
Company recommendation from KCL GmbH, Germany:
Gloves type: VITOJECT 890; layer thickness: 0,70 mm; method: DIN EN 374

Skin protection : Not applicable.
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Respiratory protection : Not applicable.
Recommended filter combination B1-P2

Environmental exposure controls : No special measures required. Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid. [Viscous liquid.]
Colour	: Yellowish-brown. [Light]
Odour	: Characteristic. [Slight]
Odour threshold	: Not determined.
pH	: Not applicable.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 351°C
Flash point	: Open cup: 255°C [Product does not sustain combustion.]
Evaporation rate	: Not determined.
Flammability (solid, gas)	: Not determined.
Burning time	: Not determined.
Burning rate	: Not determined.
Explosion limits	: Not available.
Vapour pressure	: Not determined.
Vapour density	: Not determined.

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SECTION 9: Physical and chemical properties

Density	: 1.7 g/cm ³ [20°C]
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not determined.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not determined.
Viscosity	: Not available.
Explosive properties	: Not determined.
Oxidising properties	: Not determined.
9.2 Other information	: No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. This product is not classified according to EU legislation.

Acute toxicity	: No known significant effects or critical hazards. There are no data available on the mixture itself.
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Potential acute health effects and Information on the likely routes of exposure

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Other information

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

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SECTION 12: Ecological information

12.1 Ecotoxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Evaluation : Not available.

12.2 Persistence and degradability

Evaluation : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not determined.

Mobility : There are no data available on the mixture itself.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

Additional information : This product contains None PBT and vPvB Substances .

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

13.1 Waste treatment methods

Methods of disposal : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Hazardous waste : Yes.

European waste catalogue (EWC) : 08 05 01*

08 05 01* waste isocyanates

If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Special precautions : Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
Proper shipping name	-	-	-
Classes	-	-	-

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SECTION 14: Transport information

Label			
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

REACH information : All substances contained in our products are

- Preregistered or registered by our upstream suppliers and/or
- Preregistered or registered by us and/or
- Excluded from the REACH regulation and/or
- Subject to the REACH regulation, but exempted from the registration

Annex XIV - List of substances subject to authorisation : None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Biocidal Products Directive : Not applicable.

National regulations

Germany

Storage code : Not available.

Hazardous incident ordinance : Not applicable.

Hazard class for water : 1 Appendix No. 4

AOX : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

Switzerland

VOC content (VOCV) : Liberated.

Netherlands

Water Discharge Policy (ABM) : Slightly harmful to aquatic organisms. Contains substances that are harmful to the aquatic environment. Abatement effort: A

France

Social Security Code, Articles L 461-1 to L 461-7 :

Classified installations for environmental protection : Not available.

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Additional information

GISCODE : GISCODE RU1

EMICODE : - / -

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

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SECTION 16: Other information

Abbreviations and acronyms

- : ATE = Acute Toxicity Estimate
- : CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- : DNEL = Derived No Effect Level
- : EUH statement = CLP-specific Hazard statement
- : PNEC = Predicted No Effect Concentration
- : RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements : Not applicable.

Full text of classifications [CLP/GHS] : Not applicable.

Full text of abbreviated R phrases : Not applicable.

Full text of classifications [DSD/DPD] : Not applicable.

Date of printing : 27.08.2014

Date of issue : 27.08.2014

Version : 4

✔ Indicates information that has changed from previously issued version.

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IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

SCHÖNOX GmbH, Postbox 1140, D-48713 Rosendahl // <http://www.schoenox.de>



SCHÖNOX PU 900 Hardener

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

1.1 Product identifier

Product name : SCHÖNOX PU 900 Hardener
Product description : 2-Component Polyurethan adhesive

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

Identified uses : Building and construction work (SU19)
Professional uses: Public domain (administration, education, entertainment, services, craftsmen) (SU22)
Industrial uses: Uses of substances as such or in preparations* at industrial sites (SU03)

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier : SCHÖNOX GmbH
Alfred-Nobel-Straße 6
48720 Rosendahl
Germany

Phone: +49 (0) 2547 - 910-0
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E-mail: info@schoenox.de

e-mail address of person responsible for this SDS : info@schoenox.de

Emergency telephone number : +49-170-2255126

1.4 National advisory body/Poison Centre

Germany : +49 (0) 30 192 40 (Poison Center Berlin)
Austria : +43 (0) 1 406 43 43 (VIZ)
Switzerland : +41 (0) 44 251 51 51 (STIZ)
Netherlands : +31 (0) 30 274 88 88 (NVIC)
Belgium : +32 (0) 70 245 245 (Antipoison Center)
Great Britain (GB) : +44 (0) 870 600 6266 (NPIS)
France : +33 (0) 1 45 42 59 59 (INRS/ORFILA)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : Acute Tox. 4, H332
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Resp. Sens. 1, H334
Skin Sens. 1, H317
Carc. 2, H351
STOT SE 3, H335
STOT RE 2, H373

Classification according to Directive 1999/45/EC [DPD]

Classification : Carc. Cat. 3; R40
Xn; R20, R48/20
Xi; R36/37/38
R42/43

Physical/chemical hazards : Not applicable.

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SECTION 2: Hazards identification

Human health hazards : Limited evidence of a carcinogenic effect. Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

Environmental hazards : Not applicable.

2.2 Label elements

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H332 - Harmful if inhaled.
 H319 - Causes serious eye irritation.
 H315 - Causes skin 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.

Precautionary statements :

P102 - Keep out of reach of children.
 P260 - Do not breathe vapour.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P302 - IF ON SKIN:
 P352 - Wash with plenty of soap and water.
 P304 - IF INHALED:
 P341 - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 - IF IN EYES:
 P351 - Rinse cautiously with water for several minutes.
 P338 - Remove contact lenses, if present and easy to do. Continue rinsing.
 P314 - Get medical advice/attention if you feel unwell.

Hazardous ingredients : diphenylmethanediisocyanate, isomeres and homologues

Supplemental label elements : Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Other hazards which do not result in classification : Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

See Section 11 for more detailed information on health effects and symptoms.

See Section 16 for the full text of the R phrases or H statements declared above.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Identifiers	%	Classification		
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Type
diphenylmethanediisocyanate, isomeres and homologues	EC: 202-966-0 CAS: 9016-87-9 Index: 615-005-01-6	50 - 100	Carc. Cat. 3; R40 Xn; R20, R48/20 Xi; R36/37/38 R42/43	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	[1] [2]

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SECTION 3: Composition/information on ingredients

- Type [1] Substance classified with a health or environmental hazard
 [2] Substance with a workplace exposure limit
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

See Section 16 for the full text of the R phrases or H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
- Inhalation** : Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 wheezing and breathing difficulties
 asthma
- Skin contact** : Adverse symptoms may include the following:
 irritation
 redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
Recommended: alcohol-resistant foam, CO₂, powders, water spray or mist.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

5.3 Advice for firefighters

- Protective measures** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain

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SECTION 7: Handling and storage

- product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- 7.2 Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- 7.3 Specific end use(s) Recommendations** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

8.1 Control parameters

Occupational exposure limits (OEL)

Ingredient name

diphenylmethanediisocyanate, isomers and homologues

Exposure limit values

TRGS900 AGW (Germany, 8/2010). Absorbed through skin. Skin sensitiser.

TWA: 0.05 mg/m³ 8 hours. Form: inhalable fraction

PEAK: 0.05 mg/m³ 15 minutes. Form: inhalable fraction

CEIL: 0.1 mg/m³ Form: inhalable fraction

diphenylmethanediisocyanate, isomers and homologues

SUVA (Switzerland, 1/2009). Skin sensitiser.

TWA: 0.02 mg/m³, (Calculated as NCO) 8 hours.

STEL: 0.02 mg/m³, (Calculated as NCO) 15 minutes.

OEL Notes

: There are no data available on the mixture itself. Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Derived effect levels (DNEL = Derived No Effect Level)

No DELs available.

Predicted effect concentrations (PNEC = Predicted No Effect Concentration)

No PECs available.

8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Take off contaminated clothing and wash before reuse.

Eye/face protection

: Use safety eyewear designed to protect against splash of liquids.

Hand protection

: Wear protective gloves. For prolonged or repeated handling, use the following type of gloves:

viton gloves

Company recommendation from KCL GmbH, Germany:

Gloves type: VITOJECT 890; layer thickness: 0,70 mm; method: DIN EN 374

Skin protection

: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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SECTION 8: Exposure controls/personal protection

- Respiratory protection** : By spraying: air-fed respirator.
By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask.
Recommended filter combination B1-P2
- Environmental exposure controls** : No special measures required. Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state** : Liquid. [Viscous liquid.]
- Colour** : Brown. [Light]
- Odour** : Characteristic. [Slight]
- Odour threshold** : Not determined.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : >260°C
- Flash point** : Open cup: >200°C [Product does not sustain combustion.]
- Evaporation rate** : Not determined.
- Flammability (solid, gas)** : Not determined.
- Burning time** : Not determined.
- Burning rate** : Not determined.
- Explosion limits** : Not available.
- Vapour pressure** : Not determined.
- Vapour density** : Not determined.
- Density** : 1.23 g/cm³ [20°C]
- Solubility(ies)** : Not available.
- Partition coefficient: n-octanol/water** : Not determined.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not determined.
- Viscosity** : Not available.
- Explosive properties** : Not determined.
- Oxidising properties** : Not determined.
- 9.2 Other information** : No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water.
Uncontrolled exothermic reactions occur with amines and alcohols.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself.

Acute toxicity : No known significant effects or critical hazards. There are no data available on the mixture itself.

Ingredient name	Result	Species	Dose	Exposure
diphenylmethanediisocyanate, isomeres and homologues	LC50 Inhalation Vapour	Rat	490 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-

Potential acute health effects and Information on the likely routes of exposure

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
wheezing and breathing difficulties
asthma
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Other information

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Ecotoxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Evaluation : Not available.

12.2 Persistence and degradability

Evaluation : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not determined.

Mobility : There are no data available on the mixture itself.

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SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

- PBT** : Not applicable.
vPvB : Not applicable.
Additional information : This product contains None PBT and vPvB Substances .

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

Do not allow to enter drains or watercourses. Residues in empty containers should be neutralised with a decontaminant (see section 6).

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

13.1 Waste treatment methods

Methods of disposal : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Hazardous waste : Yes.

European waste catalogue (EWC) : 08 05 01*

08 05 01* waste isocyanates

If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Special precautions : Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
Proper shipping name	-	-	-
Classes	-	-	-
Label			
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

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SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

REACH information : All substances contained in our products are

- Preregistered or registered by our upstream suppliers and/or
- Preregistered or registered by us and/or
- Excluded from the REACH regulation and/or
- Subject to the REACH regulation, but exempted from the registration

Annex XIV - List of substances subject to authorisation : None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Biocidal Products Directive : Not applicable.

Product/ingredient name	List name	Name on list	Classification	Notes
diphenylmethanediisocyanate, isomeres and homologues	Germany TRGS905	Techn. ("Polymeres") MDI; pMDI	K3	-

National regulations

Germany

Storage code : Not available.

Hazardous incident ordinance : Not applicable.

Hazard class for water : 1 Appendix No. 4

AOX : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

Switzerland

VOC content (VOCV) : Liberated.

Netherlands

Water Discharge Policy (ABM) : Slightly harmful to aquatic organisms. Contains substances that are harmful to the aquatic environment. Abatement effort: A

France

Social Security Code, Articles L 461-1 to L 461-7 : diphenylmethanediisocyanate, isomeres and homologues RG 62

Classified installations for environmental protection : Not available.

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Additional information

GISCODE : GISCODE RU1

EMICODE : - / -

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

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SECTION 16: Other information

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Resp. Sens. 1, H334	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

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.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H332	ACUTE TOXICITY: INHALATION - Category 4
Carc. 2, H351	CARCINOGENICITY - Category 2
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Resp. Sens. 1, H334	RESPIRATORY SENSITIZATION - Category 1
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3

Full text of abbreviated R phrases

R40-	Limited evidence of a carcinogenic effect.
R20-	Harmful by inhalation.
R48/20-	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38-	Irritating to eyes, respiratory system and skin.
R42/43-	May cause sensitisation by inhalation and skin contact.

Full text of classifications [DSD/DPD]

Carc. Cat. 3 - Carcinogen category 3
Xn - Harmful
Xi - Irritant

Date of printing : 27.08.2014

Date of issue : 27.08.2014

Version : 4

☑ Indicates information that has changed from previously issued version.

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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SECTION 16: Other information

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