

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Ref. MA10002434/D

Rev. no. 1.6

StoPur WV 200 transparent Komp. A

Revision Date 19.03.2020

See pg.13 for StoPur WV 200 Komp. B

Print Date 27.03.2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name StoPur WV 200 transparent Komp. A

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

Coating material

Reserved for industrial and professional use.

Uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheetSto SE & Co. KGaA
Ehrenbachstr. 1
D - 79780 Stühlingen
Telephone: +49 7744 57-0
Telefax: +49 7744 57 -2178
infoservice@sto.com

E-mail address of person responsible for the SDS European Union

Sto SE & Co. KGaA
TIQ Quality Management Department
p.hammerschmitt@sto.com**1.4 Emergency telephone number European Union**

Phone: +44 (0)1235 239 670

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

Additional Labelling:

EUH210

Safety data sheet available on request.

EUH208

Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1). May produce an allergic reaction.

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These are preservatives.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature Polyhydric alcohol component in polyurethane resin.

Components
Remarks : No hazardous ingredients

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	Move to fresh air.
Skin contact	Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If symptoms persist, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Exposure to decomposition products may be a hazard to health.

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5.3 Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Additional advice	Use water spray to cool unopened containers. Water for fire fighting must not be emptied into drains, earth or waters. Contaminated water and earth must be disposed of according to official local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Use personal protective equipment.
6.2 Environmental precautions	The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly.
6.4 Reference to other sections	Refer to protective measures listed in sections 7 and 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Do not get in eyes or mouth or on skin. Prevent unauthorized access. Provide sufficient air exchange and/or exhaust in work rooms. Comply with the statutory regulations on health and safety at work.
Hygiene measures	Wash hands before breaks and immediately after handling the product. After washing hands, replenish lost skin oil by means of oily skin ointment. When using do not eat, drink or smoke. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Keep working clothes separately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep out of reach of children. Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
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	Observe label precautions. Protect from frost, heat and sunlight.
Advice on protection against fire and explosion	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, fumes.
Advice on common storage	Keep away from oxidizing agents and strongly acid or alkaline materials.
7.3 Specific end use(s)	For further information, see also Technical Data Sheet for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The lists that were valid during the creation were used as basis. Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Ensure good ventilation; if possible, use / install internal extractor equipment.

Individual protection measures, such as personal protective equipment

a) Eye/face protection	Safety glasses with side-shields conforming to EN166
b) Skin protection	
Hand protection	<p>Wearing time: < 30 min Minimum thickness: 0,11 mm Gloves made of the following materials are suitable as protection from splashes: Gloves made of nitrile rubber, e.g. KCL 740 Dermatril® (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Wetted gloves must be disposed of immediately!</p> <p>Wearing time: > 480 min Minimum thickness: 0,4 mm Gloves in the following material can be used for prolonged contact up to max. 8 hours:</p> <p>Gloves made of nitrile rubber, e.g. KCL 730 Camatril® Velours (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Dispose of wetted gloves at the end of the shift!</p> <p>The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Cotton undergloves are recommendable when wearing protective gloves! To avoid skin problems reduce the wearing of gloves to the required</p>

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	minimum. Only use chemical-protective gloves with CE-labelling of category III.
Body Protection	Impervious clothing If splashes are likely to occur, wear: Solvent-resistant apron and boots
c) Respiratory protection	In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn when mixing or decanting these components > 1 hour / day. Recommended Filter type: A/P2 combination filter, alternatively a respiratory protective device independent from the surrounding air. Respiratory protection complying with EN 14387. For rescue and maintenance work in storage tanks use self-contained breathing apparatus.
General precautions and other information	The instructions for the personal protective equipment apply to the handling of both individual components and of the ready-to-use mixture.
Environmental exposure controls	
General advice	The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless
Odour	very faint
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	> 100 °C
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Upper explosion limit / Upper flammability limit	No data available
Lower explosion limit / Lower	No data available

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flammability limit	
Vapour pressure	No data available
Vapour density	No data available
Density	ca. 1,0 g/cm ³ (23 °C)
Solubility(ies) Water solubility	completely miscible
Partition coefficient: n- octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	No data available
Viscosity Viscosity, dynamic	ca. 270 mPa.s (23 °C)
Explosive properties	Not explosive
Oxidizing properties	Not applicable

9.2 Other information

Flow time	No data available
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions This information is not available.

10.4 Conditions to avoid

Conditions to avoid Direct sources of heat.
Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid Strong acids and strong bases
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition No decomposition if stored and applied as directed.
products

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Decomposition temperature

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:

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

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

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

Skin corrosion/irritation

Product:

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

Serious eye damage/eye irritation

Product:

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

Respiratory or skin sensitisation

Product:

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

Germ cell mutagenicity

Product:

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

Carcinogenicity

Product:

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

Reproductive toxicity

Product:

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

Developmental Toxicity

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

STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

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

Experience with human exposure

Product:

General Information

Long-term or repeated contact with the product leads to degreasing of the skin and can cause nonallergenic contact skin damage (contact dermatitis) and / or the resorption of substances.

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Solvent sprays can cause irritation and reversible damage to the eye.

Further information

Product:

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish No data available

12.2 Persistence and degradability

Product:

Biodegradability No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation No data available

12.4 Mobility in soil

Product:

Mobility No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information Do not allow product to enter into ground water, bodies of water or sewage systems.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste" Unhardened product residues should be disposed of under the recommended waste code number.

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Contaminated packaging	Packaging that is not properly emptied must be disposed of as the unused product. Empty packaging should be recycled through disposal systems.
Waste key for the unused product	08 01 12 Waste paint and varnish other than those covered by 08 01 11

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks This information is not available.

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

Remarks Not applicable

SECTION 15: REGULATORY INFORMATION

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

VOC
Directive 2010/75/EU 0,5 %

VOC
Directive 2004/42/EC 0,5 %
5,2 g/l

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EU limit value for this product (cat. A/j) :140 g/l This product contains max140 g/IVOC.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Not applicable

Further notes For further information, see also Technical Data Sheet for the product.

15.2 Chemical safety assessment

This information is not available.

SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

Other information

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS

Abteilung TIQ
Sto SE & Co. KGaA Stühlingen
p.hammerschmitt@sto.com

Product code
REG_EU / EN

PROD0309

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Ref. MA10002435/D

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StoPur WV 200 Komp. B

Revision Date 08.03.2019

Print Date 17.03.2019

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name StoPur WV 200 Komp. B

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

Coating material

Reserved for industrial and professional use.

Uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

Sto SE & Co. KGaA
Ehrenbachstr. 1
D - 79780 Stühlingen
Telephone: +49 7744 57-0
Telefax: +49 7744 57 -2178
infoservice@sto.comE-mail address of person responsible for the SDS
European UnionSto SE & Co. KGaA
TIQ Quality Management Department
p.hammerschmitt@sto.com

1.4 Emergency telephone number European Union

Phone: +44 (0)1235 239 670

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

H332: Harmful if inhaled.

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Long-term (chronic) aquatic

H412: Harmful to aquatic life with long lasting effects.

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hazard, Category 3

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statements

H317
H332
H335
H412May cause an allergic skin reaction.
Harmful if inhaled.
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention:P261
P280Avoid breathing vapours.
Wear protective gloves.**Response:**

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P362 + P364

Take off contaminated clothing and wash it before reuse.

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312

Call a POISON CENTER/doctor if you feel unwell.

Disposal:

P501

Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

Hazardous components which must be listed on the label

aliphatic polyisocyanate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Aliphatic polyisocyanate

Components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)

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aliphatic polyisocyanate	160994-68-3	Acute Tox.4; H332 Skin Sens.1; H317 STOT SE3; H335 Aquatic Chronic3; H412	≥ 70 - ≤ 100
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For explanation of abbreviations see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	When symptoms persist or in all cases of doubt seek medical advice. First aider needs to protect himself.
Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Consult a physician after significant exposure.
Skin contact	Take off contaminated clothing and shoes immediately. Take off contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If symptoms persist, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician. Eye rinsing bottle must be kept immediately to hand.
Ingestion	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth with water. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Treat symptomatically. No information available.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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Unsuitable extinguishing media	High volume water jet
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5.2 Special hazards arising from the substance or mixture

Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)

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Nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.
Complete suit protecting against chemicals

Additional advice

Use water spray to cool unopened containers.
Water for fire fighting must not be emptied into drains, earth or waters.
Contaminated water and earth must be disposed of according to official local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe fumes / aerosol
Do not get in eyes, on skin, or on clothing.
Use personal protective equipment.
Ensure adequate ventilation.
Prevent unauthorized access.

6.2 Environmental precautions

Prevent seepage into sewage system, workpits and cellars.
Do not allow contact with soil, surface or ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Subsequently put in the waste container. Do not seal (CO2 may be given off)
Clean contaminated surface thoroughly.
Suitable cleaning agents
Water
Should not be released into the environment.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Comply with the statutory regulations on health and safety at work.
Do not re-use empty containers.

Hygiene measures

Take off immediately all contaminated clothing.
Keep working clothes separately.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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Wash hands before breaks and immediately after handling the product.
After washing hands, replenish lost skin oil by means of oily skin ointment.
When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep out of reach of children.
Store in original container.
Keep tightly closed.
Protect from frost, heat and sunlight.
Keep in a dry place.

Advice on common storage

Keep away from oxidizing agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

7.3 Specific end use(s)

For further information, see also Technical Data Sheet for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values. The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Appropriate engineering controls

Ensure good ventilation; if possible, use / install internal extractor equipment.
Washing facilities / water for rinsing eyes and skin should be available.

Individual protection measures, such as personal protective equipment

a) Eye/face protection

Safety glasses with side-shields conforming to EN166

b) Skin protection
Hand protection

Wearing time: < 30 min
Minimum thickness: 0,11 mm
Gloves made of the following materials are suitable as protection from splashes:
Gloves made of nitrile rubber, e.g. KCL 740 Dermatril® (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent.
Wetted gloves must be disposed of immediately!

Wearing time: > 480 min
Minimum thickness: 0,4 mm
Gloves in the following material can be used for prolonged contact up to

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	<p>max. 8 hours:</p> <p>Gloves made of nitrile rubber, e.g. KCL 730 Camatril® Velours (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Dispose of wetted gloves at the end of the shift!</p> <p>The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Cotton undergloves are recommendable when wearing protective gloves! To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III.</p>
Body Protection	<p>Impervious clothing If splashes are likely to occur, wear: Solvent-resistant apron and boots</p>
c) Respiratory protection	<p>In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn when mixing or decanting these components > 1 hour / day. Recommended Filter type: A/P2 combination filter, alternatively a respiratory protective device independent from the surrounding air. Respiratory protection complying with EN 14387. For rescue and maintenance work in storage tanks use self-contained breathing apparatus.</p>
General precautions and other information	<p>The instructions for the personal protective equipment apply to the handling of both individual components and of the ready-to-use mixture.</p>
Environmental exposure controls	
General advice	<p>Prevent seepage into sewage system, workpits and cellars. Do not allow contact with soil, surface or ground water. If the product contaminates rivers and lakes or drains inform respective authorities.</p>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless, Yellowish
Odour	very faint
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available

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Flash point	ca. 195 °C(1.013 hPa) Method: ISO 2719
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Upper explosion limit / Upper flammability limit	No data available
Lower explosion limit / Lower flammability limit	No data available
Vapour pressure	ca. 5 hPa (20 °C) ca. 10 hPa (50 °C) ca. 11 hPa (55 °C)
Vapour density	No data available
Density	ca. 1,15 g/cm ³ (20 °C) Method: DIN 51757
Solubility(ies) Water solubility	immiscible (15 °C)
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	Thermal decomposition over 150°C
Viscosity Viscosity, dynamic	ca. 800 mPa.s (23 °C) Method: DIN 53019
Explosive properties	Not explosive
Oxidizing properties	Not applicable

9.2 Other information

Flow time	No data available
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

10.2 Chemical stability

Stable under normal conditions.

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10.3 Possibility of hazardous reactions

Hazardous reactions Amines and alcohols cause exothermic reactions.
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
With water (moisture): CO₂ is produced; pressure may build up inside closed containers (danger of bursting)

10.4 Conditions to avoid

Conditions to avoid Direct sources of heat.
Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid Strong acids and strong bases
Acids and bases
Alcohols

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if stored and applied as directed.
In case of fire hazardous decomposition products may be produced such as:
Isocyanates
Hydrogen cyanide (hydrocyanic acid)

Decomposition temperature Thermal decomposition over 150°C

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity LD₅₀ (Rat): > 2.000 mg/kg

Acute inhalation toxicity

LC₅₀ (Rat): 1,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Expert judgement
The toxicological data has been taken from products of similar composition.

Acute dermal toxicity

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

Components:

aliphatic polyisocyanate:

Acute inhalation toxicity

LC₅₀ (Rat): 0,1 - 0,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Skin corrosion/irritation

Product:

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

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Serious eye damage/eye irritation

Product:

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

Respiratory or skin sensitisation

Product:

Method

OECD Test Guideline 406

Causes sensitisation on guinea-pigs.

The toxicological data has been taken from products of similar composition.

Does not cause respiratory sensitisation.

Components:

aliphatic polyisocyanate:

May cause an allergic skin reaction.

Germ cell mutagenicity

Product:

Genotoxicity in vitro

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

Carcinogenicity

Product:

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

Reproductive toxicity

Product:

Effects on fertility

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

Developmental Toxicity

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

STOT - single exposure

Product:

Exposure routes

Inhalation

Assessment

May cause respiratory irritation.

Components:

aliphatic polyisocyanate:

Exposure routes

Inhalation

Assessment

May cause respiratory irritation.

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

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

Further information

Product:

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish

LC50 (Danio rerio (zebra fish)): 28,3 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

The toxicological data has been taken from products of similar composition.

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

The toxicological data has been taken from products of similar composition.

Toxicity to algae/aquatic plants

IC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

The toxicological data has been taken from products of similar composition.

Toxicity to microorganisms

EC50 (activated sludge): > 10.000 mg/l

Method: OECD Test Guideline 209

The toxicological data has been taken from products of similar composition.

12.2 Persistence and degradability

Product:

Biodegradability

not rapidly degradable

Biodegradation: 2 %

Exposure time: 28 d

Method: OECD Test Guideline 301

Together with water the resin turns at the surface into a solid and insoluble reaction product (polycarbamide) with a high melting point, by forming carbon dioxide.

Components:

aliphatic polyisocyanate:

Biodegradability

not rapidly degradable

Biodegradation: 2 %

Exposure time: 28 d

Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Product:

Bioaccumulation

No data available

Components:

aliphatic polyisocyanate:

Partition coefficient: n-octanol/water

log Pow: 3,0

12.4 Mobility in soil

Product:

Mobility

No data available

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12.5 Results of PBT and vPvB assessment

Product:

Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information

Do not allow product to enter into ground water, bodies of water or sewage systems.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste" Unhardened product residues should be disposed of under the recommended waste code number.

Contaminated packaging

Packaging that is not properly emptied must be disposed of as the unused product. Empty packaging should be recycled through disposal systems.

Waste key for the unused product

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

(*) hazardous waste in terms of the European directive 2008/98/EG

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

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Not regulated as a dangerous good

14.6 Special precautions for user

Remarks This information is not available.

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

Remarks Not applicable

SECTION 15: REGULATORY INFORMATION

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

VOC
Directive 2010/75/EU 0 %

VOC
Directive 2004/42/EC 0 %

EU limit value for this product (cat. A/j) :140 g/lThis product contains max140 g/lVOC.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals Not applicable

Further notes For further information, see also Technical Data Sheet for the product.

15.2 Chemical safety assessment

This information is not available.

SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

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Full text of H-Statements

H317	: May cause an allergic skin reaction.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information	It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.
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Department issuing MSDS	Abteilung TIQ Sto SE & Co. KGaA Stühlingen p.hammerschmitt@sto.com
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Product code REG_EU / EN	PROD0308 PROD0309
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