

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 10.04.2019

Version number 3

Revision: 10.04.2019

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

### - 1.1 Product identifier

- Trade name **Stobicoll® A 255.08 Isocyanat**

- Article number: 2202550831060

- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

- Application of the substance / the mixture Component of the polyurethane system

### - 1.3 Details of the supplier of the safety data sheet

#### - Manufacturer/Supplier:

Stockmeier Urethanes GmbH & Co. KG

Im Hengstfeld 15

32657 Lemgo

Deutschland / Germany

Fon: ++49 5261 660 68 0

Fax: ++49 5261 660 68 29

Email: urethanes.ger@stockmeier.com

- Informing department: Product safety department

### - 1.4 Emergency telephone number:

24-h-Emergency-Contact-No. (Contact-ID: SU):

outside USA/Canada Tel. +49 700 24 112 112 (SU)

inside USA/Canada Tel. 011 49 700 24 112 112 (SU)

## SECTION 2: Hazards identification

### - 2.1 Classification of the substance or mixture

#### - Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226	Flammable liquid and vapour.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer. Route of exposure: Inhalation.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 1	H372-H373	Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

### - 2.2 Label elements

#### - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### - Hazard pictograms



GHS02 GHS07 GHS08

- Signal word **Danger**

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**Trade name Stobicoll® A 255.08 Isocyanat**


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**- Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomeres and homologues  
styrene

**- Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye 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. Route of exposure: Inhalation.

H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

**- Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P243 Take action to prevent static discharges.

P260 Do not breathe mist/vapours/spray.

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

P284 [In case of inadequate ventilation] wear respiratory protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Additional information:**

Contains isocyanates. May produce an allergic reaction.

**- 2.3 Other hazards**

For their own protection, persons who suffer from hypersensitivity of the respiratory tract (e.g. asthmatics and chronic bronchitis sufferers) should avoid handling this product.

**- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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## SECTION 3: Composition/information on ingredients

**- 3.2 Mixtures**

- **Description:** Mixture of the substances listed below with harmless additions

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<b>- Dangerous components:</b>		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-25%
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	styrene Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	10-25%

**- Additional information** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### - 4.1 Description of first aid measures

#### - General advice:

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of unconsciousness bring patient into stable side position for transport.

#### - After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air; consult doctor in case of symptoms.

#### - After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

#### - After eye contact

In case of persistent symptoms consult doctor.

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

#### - After swallowing

In case of persistent symptoms consult doctor.

### - 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### - Information for doctor

Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration.

Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.

### - 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5: Firefighting measures

### - 5.1 Extinguishing media

- Suitable extinguishing agents Alcohol-resistant foam

### - 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

Nitrogen oxides (NO<sub>x</sub>)

carbon monoxide (CO)

Hydrogen cyanide (HCN)

Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.

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*Avoid contact with combustible substances*

**- 5.3 Advice for firefighters**

**- Protective equipment:**

*See section 8.*

*Put on breathing apparatus.*

*Wear self-contained breathing apparatus.*

*Wear full protective suit with self-contained breathing apparatus.*

**- Additional information**

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

*Endangered containers in the surrounding area should be cooled with a water-hose.*

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### SECTION 6: Accidental release measures

**- 6.1 Personal precautions, protective equipment and emergency procedures**

*Wear protective equipment. Keep off unprotected persons*

*Wear protective equipment and keep unprotected persons away.*

*Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.*

**- 6.2 Environmental precautions:**

*Prevent material from reaching sewage system, holes and cellars.*

*Do not allow to enter drainage system, surface or ground water.*

*If large amounts are released, the authorities must be informed.*

**- 6.3 Methods and material for containment and cleaning up:**

*Transfer to waste container. Keep damp in the open air in a safe place (CO<sub>2</sub>-formation!) for a few days; the waste can then be disposed of on approved landfill or a special refuse dump. Ensure adequate ventilation.*

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Ensure adequate ventilation.*

*Contaminated material has to be disposed as waste (see item 13).*

**- 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 information on disposal.*

*Danger of explosion*

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### SECTION 7: Handling and storage

**- 7.1 Precautions for safe handling**

*Keep containers tightly closed.*

*Ensure good ventilation/exhaustion at the workplace.*

*Prevent formation of aerosols.*

*Exhaust ventilation required during spraying or at raw material temperatures above 40 °C.*

*Keep containers tightly sealed.*

*Prevent formation of aerosols.*

*Avoid contact with eyes and skin.*

**- Information about protection against explosions and fires:**

*Keep ignition sources away - Do not smoke.*

*Protect against electrostatic charges.*

**- 7.2 Conditions for safe storage, including any incompatibilities**

**- Storage**

*Protect against direct sunlight, other sources of heat and ignition.*

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Store in cool, dry conditions in well sealed containers.

**- Requirements to be met by storerooms and containers:**

Observe official regulations on storage and handling of water hazardous substances  
Prevent any penetration into the ground.

**- Information about storage in one common storage facility:**

Store away from foodstuffs.  
According to guidelines of the VbF, flammable liquids should not be stored together.

**- Further information about storage conditions:**

Keep container tightly sealed.  
Attention should be paid to the guidelines of the VbF and the related technical regulations of the TRbF

**- 7.3 Specific end use(s)** No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

**- Additional information about design of technical systems:**

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

**- 8.1 Control parameters**

**- Components with critical values that require monitoring at the workplace:**

**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues (10-25%)**

WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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**100-42-5 styrene (10-25%)**

WEL	Short-term value: 1080 mg/m <sup>3</sup> , 250 ppm Long-term value: 430 mg/m <sup>3</sup> , 100 ppm
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**- DNELs**

**100-42-5 styrene**

Inhalative	DNEL (worker)	306 mg/m <sup>3</sup> (Acute, local effects) 85 mg/m <sup>3</sup> (Long-term, systemic effects)
	DNEL (population)	182.75 mg/m <sup>3</sup> (Acute, local effects) 10.2 mg/m <sup>3</sup> (Long-term, systemic effects)

**- Additional information:** The lists that were valid during the compilation were used as basis.

**- 8.2 Exposure controls**

**- Personal protective equipment**

**- General protective and hygienic measures**

Keep away from food, beverages and fodder.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Gases, fumes and aerosols should not be inhaled.

**- Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**- Recommended filter device for short term use:** Combination filter A-P2

**- Protection of hands:**

Protective gloves.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**- Material of gloves**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**- Penetration time of glove material**

Pay attention to information supplied by the manufacturer of gloves (permeation rate and penetration times) just as to workplace-specific conditions (mechanical stress, wearing duration).

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

**- Eye protection:** Tightly sealed safety glasses.

**- Body protection:**

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

## SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

**Form:** Fluid

**Colour:** Not determined.

**- Smell:** Characteristic

**- Odour threshold:** Not determined.

**- pH-value:** not applicable

**- Change in condition**

**Melting point/freezing point:** Not determined

**Initial boiling point and boiling range:** Not determined

**- Flash point:** 30 °C

**- Inflammability (solid, gaseous)** Not applicable.

**- Ignition temperature:** 400 °C  
(lowest level for individual components)

**- Decomposition temperature:** > 260 °C

**- Self-inflammability:** Product is not selfigniting.

**- Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

**- Critical values for explosion:**

**Lower:** 1.2 Vol %

**Upper:** 8.9 Vol %

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- <b>Vapour pressure at 20 °C:</b>	7.1 hPa
- <b>Density at 20 °C</b>	1.1 g/cm <sup>3</sup>
- <b>Relative density</b>	Not determined.
- <b>Vapour density</b>	Not determined.
- <b>Evaporation rate</b>	Not determined.
- <b>Solubility in / Miscibility with Water:</b>	Insoluble
- <b>Partition coefficient: n-octanol/water:</b>	Not determined.
- <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	40 mPas
<b>kinematic:</b>	Not determined.
- <b>Solvent content:</b>	
<b>Organic solvents:</b>	15.0 %
<b>Solids content:</b>	100.0 %
- <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Exothermic reaction with amines and alcohols; reacts with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increase of pressure.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Formation of carbon monoxide and carbon dioxide in case of fire.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if inhaled.

- **LD/LC50 values that are relevant for classification:**

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

Oral	LD50	> 15000 mg/kg (rat)
Inhalative	LC 50 / 4 h	0.49 mg/l (rat)

#### 100-42-5 styrene

Oral	LD50	> 5000 mg/kg (rat)
Inhalative	LC 50	>10 - ≤20 mg/l (rat)

- **Specific symptoms in biological assay:**

Long-term inhalation study of tech. diphenylmethane diisocyanate (PMDI) carried out using mechanically produced, inhalable PMDI aerosols. Aerodynamic diameter: 95 % below 5 µm Concentrations: 0,2; 1,0 and 6,0 mg/m<sup>3</sup> - Animal groups: 120 rats in each (60 female, 60 male)

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Results after clinical and histopathological examination of the animals: 0,2 mg aerosols/m<sup>3</sup>: No irritation of the respiratory tract or lungs – “no effect level” (NOEL).

1,0 mg aerosols/m<sup>3</sup>: Slight irritation of and inflammatory changes to the nose, respiratory tract and lungs. No lung tumours.

6,0 mg aerosols/m<sup>3</sup>: More severe irritation of and chronic inflammatory changes to the nose, respiratory tract and lungs. Accumulation of a yellow substance in the lungs could be observed. 8 benign (statistically increased) and 1 malignant (statistically insignificant) lung tumours were found.

The overall increased incidence of lung tumours only in the group which received the highest concentration is closely attributed to the chronic irritation of and the inflammatory changes to the respiratory organs and to the accumulation of the yellow substance in the lungs of the animals.

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **Additional toxicological information:** irritant
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Suspected of causing cancer. Route of exposure: Inhalation.
- **Reproductive toxicity**  
Suspected of damaging the unborn child.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### - 12.1 Toxicity

#### - Aquatic toxicity:

##### 100-42-5 styrene

LC 50	>1-<10 mg/l (fish)
	>1-<10 mg/l (Daphnia magna)
EC 50	>1-<10 mg/l (Daphnia magna)

- **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.

#### - Ecotoxicological effects:

- **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**

##### 100-42-5 styrene

EC 50	>1-<10 mg/l (fish)
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- **Additional ecological information:**

#### - General notes:

Not miscible with water. Reacts with water at the interface producing CO<sub>2</sub> and forming a solid and insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-

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degradable.

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

**- 12.5 Results of PBT and vPvB assessment**- **PBT:** Not applicable.- **vPvB:** Not applicable.- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**- 13.1 Waste treatment methods**

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

**- Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

Contaminated water to separate by separator and dispose off in line with administrative regulations.

**- Waste disposal key number:**

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- **European waste catalogue** 080501- **Uncleaned packagings:** Disposal must be made according to official regulations.**- Recommendation:**

Empty containers may only be disposed of after neutralising any product remaining on the walls of the containers with a mixture of isopropanol, ammonia and water and removal of the warning labels.

After complete emptying and cleaning, send to be reconditioned or recycled.

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning.

Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

Caution: Leftovers in the containers may cause the risk of explosion.

Uncleaned containers should not be perforated, cut or welded.

### SECTION 14: Transport information

**- 14.1 UN-Number**- **ADR, IMDG, IATA** UN2055**- 14.2 UN proper shipping name**- **IMDG, IATA** STYRENE MONOMER, STABILIZED MIXTURE**- 14.3 Transport hazard class(es)****- ADR**- **Class** 3 (F1) Flammable liquids.- **Label** 3**- IMDG, IATA**- **Class** 3 Flammable liquids.- **Label** 3

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- <b>14.4 Packing group</b> - <b>ADR, IMDG, IATA</b>	III
- <b>14.5 Environmental hazards:</b> - <b>Marine pollutant:</b>	No
- <b>14.6 Special precautions for user</b> - <b>Kemler Number:</b> - <b>EMS Number:</b> - <b>Stowage Category</b>	Warning: Flammable liquids. 39 F-E,S-D A
- <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>- Transport/Additional information:</b>	
- <b>ADR</b> - <b>Limited quantities (LQ)</b> - <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- <b>Transport category</b> - <b>Tunnel restriction code</b>	3 D/E
- <b>IMDG</b> - <b>Limited quantities (LQ)</b> - <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- <b>UN "Model Regulation":</b>	UN2055, STYRENE MONOMER, STABILIZED, MIXTURE, 3, III

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomeres and homologues  
styrene

- **Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

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- H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer. Route of exposure: Inhalation.  
 H361d Suspected of damaging the unborn child.  
 H335 May cause respiratory irritation.  
 H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

**- Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
 P243 Take action to prevent static discharges.  
 P260 Do not breathe mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Directive 2012/18/EU**

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**- National regulations****- Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**- Relevant phrases**

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

- H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 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. Route of exposure: Inhalation.  
 H361d Suspected of damaging the unborn child.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

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*H412 Harmful to aquatic life with long lasting effects.*

**- Department issuing data specification sheet:** see item 1: Informing department

**- Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 10.04.2019

Version number 3

Revision: 10.04.2019

Trade name **Stobicoll® A 255.08 Isocyanat**

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### Annex: Exposure scenario

#### - Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

#### - Conditions of use

- **Duration and frequency** 5 workdays/week.

#### - Physical parameters

- **Physical state** Fluid

- **Concentration of the substance in the mixture** The substance is main component.

#### - Other operational conditions

- **Other operational conditions affecting environmental exposure** No special measures required.

#### - Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

Do not breathe gas/vapour/aerosol.

- **Other operational conditions affecting consumer exposure** No special measures required.

#### - Other operational conditions affecting consumer exposure during the use of the product

Not applicable.

#### - Risk management measures

##### - Worker protection

- **Organisational protective measures** No special measures required.

- **Technical protective measures** Ensure that suitable extractors are available on processing machines

##### - Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed safety glasses.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

- **Measures for consumer protection** Ensure adequate labelling.

##### - Environmental protection measures

- **Water** No special measures required.

- **Disposal measures** Ensure that waste is collected and contained.

##### - Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Waste type** Partially emptied and uncleaned packaging

#### - Exposure estimation

- **Consumer** Not relevant for this Exposure Scenario.