

Safety Data Sheet

According to Regulation EC No. 1907/2006

**Schnellgießharz GP 010 A / Isocyanat
(light yellow)**

Date of issue/Date of revision: 02.11.2022

en / EU - Version 1.2

1. Identification of the substance/preparation and of the company/undertaking**1.1 Identification of the substance
or preparation:**

Schnellgießharz GP 010 A

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

isocyanate component of a 2-component special resin system for industrial or professional applications

Applications, which are not recommended:Not suitable for do-it-yourself-applications
Product must not be used for spraying.**1.3 Company/undertaking identification**

Company name: Gößl + Pfaff GmbH
 Street: Münchener Str. 13
 Place: 85123 Karlskron/Brautlach
 Telephone: +49 (0) 8450 / 932-0
 Fax.: +49 (0) 8450 / 932-13
 Contact person: Management: Mr. Gößl, Mr. Pfaff
 E-Mail: info@goessl-pfaff.de
 Internet: www.goessl-pfaff.de
 Responsible Department: Management

1.4 Emergency telephone**Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463****2. Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

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

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

Hazard pictograms**Signal word:** Danger

Safety Data Sheet

According to Regulation EC No. 1907/2006

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en / EU - Version 1.2

Hazard-determining components of labelling:4,4'-methylenediphenyl diisocyanate
Bis(isopropyl)naphthalin**Hazard statements**

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.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
 H304 May be fatal if swallowed and enters airways.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P321 Specific treatment (see on this label).
 P331 Do NOT induce vomiting.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 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.
 As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards

Danger for health when breathing in.
 Effect of sensitization on the lungs.
 Recognized allergen.
 Persons with hypersensitive respiratory tracts (asthma, chronic obstructive pulmonary) should not handle with the product.

Results of PBT and vPvB assessment

PBT: Not applicable.
 vPvB: Not applicable.

3. Composition/information on ingredients**3.2 Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	4,4'-methylenediphenyl diisocyanate 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, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %	50 – 100 %
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According to Regulation EC No. 1907/2006

Schnellgießharz GP 010 A / Isocyanat (light yellow)

Date of issue/Date of revision: 02.11.2022

en / EU - Version 1.2

CAS: 38640-62-9

EINECS: 254-052-6

Reg.nr.: 01-2119565150-48-0000

Bis(isopropyl)naphthalin

Asp. Tox. 1, H304; Aquatic Chronic 1, H410

25 – 50 %

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

4. First aid measures

4.1 Description of first aid measures

General information:

Immediately 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.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

After swallowing:

If symptoms persist consult doctor.

Information for doctor:

The product irritates the respiratory tract and is a potential sensor for sensitization of skin and respiratory tract.

The treatment of the acute irritation or bronchial constriction is primarily symptomatic.

Depending on extent of the exposition and disturbances a longer medical care can be necessary.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray.

Fight larger fire with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Hydrogen cyanide (HCN)

(Traces)

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

Safety Data Sheet

According to Regulation EC No. 1907/2006

Schnellgießharz GP 010 A / Isocyanat (light yellow)

Date of issue/Date of revision: 02.11.2022

en / EU - Version 1.2

Additional information

In case of flame spread pressure build-up, bursting danger.
Containers should be cooled with water and removed from danger zone.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Wear protective clothing.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

After approx. 1 hour to be filled in suitable barrels; the barrels should not be closed (liberation of CO₂), but only covered. They should be left outside for 7-14 days, then the containers can be disposed according to official regulations.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

The air limiting values mentioned in chapter 8 have to be controlled. At places of work, where aerosols and/or fumes can occur in higher concentrations, exceeding of limiting hygienic values has to be prevented by specific air exhaust. The air motions have to be carried out from the persons away.

The personal safety measures mentioned in chapter 8 are to be followed. The measures regarding handling with isocyanate are to be followed. Contact with skin and eyes as well as breathing in of vapours is to be avoided.
Safety precautions for handling of just molded polyurethane parts (prototypes, positives or negatives):

Depending on the production parameters, any uncovered surfaces of polyurethane moldings containing isocyanates as raw material, may contain traces of substances (e. g. primary and reaction products, catalysts, release agents) with hazardous characteristics. Avoid any skin contact with traces of these substances! When demolding or otherwise handling just molded polyurethane parts, use protective nitrile rubber gloves (according to DIN EN 374) or protective nitrile rubber gloves against mechanic exposure. For any further skin protection we recommend to wear protective clothing when handling just molded polyurethane parts.

In case you are aware of any allergic reaction to this material, consult your company physician (in line with risk assessment) before working with the product.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Moistness in a full or empty isocyanate container can cause pressure build-up and can lead to explosion.

Safety Data Sheet

According to Regulation EC No. 1907/2006

Schnellgießharz GP 010 A / Isocyanat (light yellow)

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en / EU - Version 1.2

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions

The material tends to crystallize at a temperature below 20°C.

By warming up to 40–50 °C for several hours this effect can be compensated.

The material can be melted several times without quality reduction.

Protect from humidity and water.

Keep container tightly closed.

7.3 Specific end use(s)

No further relevant information available.

8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:		
101-68-8 4,4'-methylenediphenyl diisocyanate (50 –100 %)		
WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO	
DNELs		
101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	short term DNEL systemic effects	20 mg/kg (Consumer)
Dermal	short term systemic effects	25 mg/kg (Consumer) 50 mg/kg (worker)
	short term local effects	17.2 mg/cm ² (Consumer) 28.7 mg/cm ² (worker)
Inhalative	short term systemic effects	0.05 mg/m ³ (Consumer) 0.1 mg/m ³ (worker)
	short term local effects	0.05 mg/m ³ (Consumer) 0.1 mg/m ³ (worker)
	long term systemic effects	0.025 mg/m ³ (Consumer) 0.05 mg/m ³ (worker)
	long term DNEL local effects	0.025 mg/m ³ (Consumer) 0.05 mg/m ³ (worker)
38640-62-9 Bis(isopropyl)naphthalin		
Dermal	DNEL/DMEL Werte	4.3 mg/kg (Worker (long-term)) 2.1 mg/kg (Consumer (long-term))
Inhalative	DNEL/DMEL Werte	30 mg/m ³ (Worker (long-term)) 7.4 mg/m ³ (Consumer (long-term))
PNECs		
101-68-8 4,4'-methylenediphenyl diisocyanate		
freshwater	1 mg/l (freshwater)	
seawater	0.1 mg/l (seawater)	
Sediment	1 mg/kg (Sediment)	
38640-62-9 Bis(isopropyl)naphthalin		
NOEC (21 d)	0.013 mg/l (daphnia magna) ((OECD 202, part 2))	
PNEC	0.19 mg/l (Sediment)	
PNEC	0.15 mg/l	
STP	94 mg/l (seawater)	
PNEC (wässrig)	0.94 mg/l (freshwater)	
Ingredients with biological limit values:		
101-68-8 4,4'-methylenediphenyl diisocyanate (50 –100%)		
BMGV	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine	

Safety Data Sheet

According to Regulation EC No. 1907/2006

**Schnellgießharz GP 010 A / Isocyanat
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en / EU - Version 1.2

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls:**

No further data; see item 7.

Individual protection measures, such as personal protective equipment**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A2/P2

Hand protection

For the permanent contact gloves made of Nitrilkautschuk with a layer thickness of at least 0.35 mm are suitable.

The penetration time of this glove material is 480 minutes.

The glove material has to be according the requirement of EU-guideline 89/686/EWG and the resulting norm EN374

The above mentioned penetration times are based on laboratory measurements of KCL according to EN 374.

This recommendation is only valid for the product, which is delivered from us and only for the intended mentioned application. Regarding dissolution or mixing with other substances please contact suppliers of CE-approved gloves.

Gößl + Pfaff gives this recommendation in good faith, without liability for any claims arising from the recommendation or the use of the suggested protection gloves.

Protective gloves

Material of gloves

Rubber gloves

PVC gloves

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.

Eye/face protection:

Tightly sealed goggles

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information**

Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	15 °C
Boiling point or initial boiling point and boiling range:	> 230 °C (DIN 53171)
Flammability:	Not applicable.
Lower and upper explosion limit	
Lower:	0.4 Vol %
Upper:	4.7 Vol %
Flash point:	141 °C (c.c.)

Safety Data Sheet

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**Schnellgießharz GP 010 A / Isocyanat
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Date of issue/Date of revision: 02.11.2022

en / EU - Version 1.2

Ignition temperature:	425 °C (DIN 51794)
Decomposition temperature:	Not determined.
pH at 20 °C	< 7 (ISO 8975)
Viscosity	
Kinematic viscosity:	Not determined.
Dynamic at 20 °C:	35 mPas (ISO 9371)
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.2 g/cm ³ (ISO 2811)
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Organic solvents:	0.0 %
Solids content:	63.4 %
Change in condition	
Evaporation rate:	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

Safety Data Sheet

According to Regulation EC No. 1907/2006

**Schnellgießharz GP 010 A / Isocyanat
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en / EU - Version 1.2

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 and stored according to specifications.

10.3 Possibility of hazardous reactions

Exothermic reaction with amines and alcohols.

With water CO₂-development, in closed container developing of pressure, bursting danger.**10.4 Conditions to avoid**

No further relevant information available.

10.5 Incompatible materials:

Avoid contact with water, amines, alcohol, vapour, glycols, watery mixtures.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

11. Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if inhaled.

LD/LC50 values relevant for classification:		
101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	> 2,000 mg/kg (rat) (Richtlinie 84/449/EWG, B.1)
Dermal	LD50	> 9,400 mg/kg (Ka)
38640-62-9 Bis(isopropyl)naphthalin		
Oral	LD50	> 4,000 mg/kg (rat)
	NOAEL Langzeittoxizität	170 mg/kg (rat)
Dermal	LD50	> 4,000 mg/kg (rat)
Inhalative	LC50/4 h Aerosole	> 5.6 mg/l (rat) ((OECD 403 (Aerosol)))

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.

Carcinogenicity

Suspected of causing cancer. Route of exposure: Inhalation.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Route of exposure:

Inhalation.

Aspiration hazard

May be fatal if swallowed and enters airways.

Safety Data Sheet

According to Regulation EC No. 1907/2006

Schnellgießharz GP 010 A / Isocyanat (light yellow)

Date of issue/Date of revision: 02.11.2022

en / EU - Version 1.2

Additional toxicological information:

sensitizing

Special properties/effects:

Over-exposure may lead to risk of concentration-dependent irritating effects on eyes, nose, throat and respiratory tract. Later appearance of any effects and development of hypersensitivity (heavy breathing, coughing, asthma) possible.

Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the Workplace Exposure Limit (WEL). Long lasting contact with skin may cause tanning and irritating effects.

Animal testing and research show that hypersensitivity and respiratory system reactions might be a consequence of skin contact with diisocyanates.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

12. Ecological information

12.1 Toxicity

Aquatic toxicity:	
101-68-8 4,4'-methylenediphenyl diisocyanate	
EC 50 (3h)	> 100 mg/l (activated sludge) (OECD-Richtlinie 209, aquatisch)
EC0 (72h)	1,640 mg/l (Scenedesmus subspicatus) (OECD-Richtlinie 202, Teil 1 statisch)
EC 50 (24 h)	> 1,000 mg/l (daphnia magna) (OECD-Richtlinie 202, Teil 1, statisch)
LC0 (96 h)	> 1,000 mg/l (Brachydanio rerio) (OECD-Richtlinie 203, statisch)
38640-62-9 Bis(isopropyl)naphthalin	
EC0 (72h)	0.15 mg/l (Al) ((OECD 201))
EC0 (48h)	0.16 mg/l (daphnia magna) ((DIN 38412, part 11))
LL50 (48h)	1.7 mg/l (daphnia magna) ((loading, OECD 202))
LC0 (96 h)	0.5 mg/l (fish) ((nominal; OECD 203))

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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Other information:

The product reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Safety Data Sheet

According to Regulation EC No. 1907/2006

Schnellgießharz GP 010 A / Isocyanat (light yellow)

Date of issue/Date of revision: 02.11.2022

en / EU - Version 1.2

13. Disposal considerations

13.1 Waste treatment methods

Recommendation

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

Waste disposal key:

The Waste-Key-Numbers have to be given from the waste-producer depending on the respective trade. Therefore no information can be stated from the manufacturer.

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14. Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN3082

14.2 UN proper shipping name

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalin)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalin), MARINE POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalin)

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class

9 Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant:

Product contains environmentally hazardous substances:

Bis(isopropyl)naphthalin

Yes

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user

Hazard identification number (Kemler code):

Warning: Miscellaneous dangerous substances and articles.

EMS Number:

90

Stowage Category

F-A, S-F

A

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

ADR

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

IMDG

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Safety Data Sheet

According to Regulation EC No. 1907/2006

**Schnellgießharz GP 010 A / Isocyanat
(light yellow)**

Date of issue/Date of revision: 02.11.2022

en / EU - Version 1.2

UN "Model Regulation":UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (BIS(ISOPROPYL)NAPHTHALIN), 9, III**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Qualifying quantity (tonnes) for the application of lower-tier requirements:** 100 t**Qualifying quantity (tonnes) for the application of upper-tier requirements:** 200 t**National regulations:****VOC (EC):** 0.00 %

Class	Share in %
I	69.8

Waterhazard class:

Water hazard class 3 (Self-assessment): extremely hazardous for water.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information**Relevant phrases**

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.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.
 EUH204 Contains isocyanates. May produce an allergic reaction.

Abbreviations and acronyms:

Acute Tox. 4: Acute toxicity - inhalation –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
 STOT SE 3: Specific target organ toxicity (single exposure) –Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) –Category 2
 Asp. Tox. 1: Aspiration hazard –Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard –Category 1

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.