

according to Regulation (EC) No 1907/2006 (REACH) as amended

## U 2161 HOSTAGRUND RUST BLOCKER

Creation date	19th March 2018	Version	2.0
Revision date	02nd June 2022		

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

**1.1. Product identifier** U 2161 HOSTAGRUND RUST BLOCKER  
Substance / mixture mixture  
UFI 4Q1W-Y0GT-7002-P2DG  
Other mixture names

Impregnating polyurethane one component paint

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

#### Mixture's intended use

Varnish.

#### Main intended use

PC-PNT-3 Paints/coatings - Protective and functional

#### Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

Exposure scenario is attached to the Safety Data Sheet.

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

#### Manufacturer

Name or trade name BARVY A LAKY TELURIA, s.r.o.

Address č.p.1, Skrchov, 679 61

Czech Republic

Identification number (CRN) 43420371

VAT Reg No CZ43420371

Phone +420 516 474 211

E-mail tel@teluria.cz

Web address http://www.bal.cz

#### Competent person responsible for the safety data sheet

Name Ing. Štěpánka Nováková

E-mail stepanka.novakova@bal.cz

### 1.4. Emergency telephone number

European emergency number: 112

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 3, H226

Asp. Tox. 1, H304

Acute Tox. 4, H312+H332

Skin Irrit. 2, H315

Skin Sens. 1, H317

Eye Irrit. 2, H319

Resp. Sens. 1, H334

STOT SE 3, H335

STOT RE 2, H373

Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

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### Most serious adverse physico-chemical effects

Flammable liquid and vapour.

### Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs through prolonged or repeated exposure. Harmful in contact with skin or if inhaled. Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

### Hazard pictogram



### Signal word

Danger

### Hazardous substances

xylene ( mixture of isomers and ethylbenzene )  
 aromatic polyisocyanate  
 Polymeric diphenylmethane diisocyanate, Polymeric MDI  
 4,4'-methylenediphenyl diisocyanate  
 o-(p-isocyanatobenzyl)phenyl isocyanate  
 2,2'-methylenediphenyl diisocyanate

### Hazard statements

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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.

### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P260	Do not breathe vapours.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P342+P311	If experiencing respiratory symptoms: Call a doctor.
P405	Store locked up.

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P501 Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

### Supplemental information

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. As from 24 August 2023 adequate training is required before industrial or professional use.

Density	0,90-0,912 g/cm <sup>3</sup> at 23 °C
VOC	0,81 kg/kg
TOC	0,62 kg/kg
Dry matter	15 % volume
VOC limit value	cat. A (h) SB: 750 g/l
Max. VOC content in the product in its ready to use condition	740 g/l

### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

#### Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 905-562-9 Registration number: 01-2119555267-33	xylene ( mixture of isomers and ethylbenzene )	80-82	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	1, 3
CAS: 67815-87-6	aromatic polyisocyanate	10-11	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 STOT RE 2, H373	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 615-005-00-9 CAS: 9016-87-9	Polymeric diphenylmethane diisocyanate, Polymeric MDI	6-7	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 5 % Skin Irrit. 2, H315: C ≥ 5 % STOT SE 3, H335: C ≥ 5 % Resp. Sens. 1, H334: C ≥ 0,1 %	
Index: 615-005-00-9 CAS: 101-68-8 EC: 202-966-0 Registration number: 01-2119457014-47	4,4'-methylenediphenyl diisocyanate	0,7-0,8	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 5 % Resp. Sens. 1, H334: C ≥ 0,1 % STOT SE 3, H335: C ≥ 5 % Skin Irrit. 2, H315: C ≥ 5 %	1, 2, 4
Index: 615-005-00-9 CAS: 5873-54-1 EC: 227-534-9 Registration number: 01-2119480143-45	o-(p-isocyanatobenzyl)phenyl isocyanate	0,7-0,8	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 Specific concentration limit: Resp. Sens. 1, H334: C ≥ 0,1 % Eye Irrit. 2, H319: C ≥ 5 % STOT SE 3, H335: C ≥ 5 % Skin Irrit. 2, H315: C ≥ 5 %	1, 2, 4

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 615-005-00-9 CAS: 2536-05-2 EC: 219-799-4 Registration number: 01-2119927323-43	2,2'-methylenediphenyl diisocyanate	0,019	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 Specific concentration limit: STOT SE 3, H335: C ≥ 5 % Eye Irrit. 2, H319: C ≥ 5 % Resp. Sens. 1, H334: C ≥ 0,1 % Skin Irrit. 2, H315: C ≥ 5 %	1, 2, 4

### Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.
- Substance with a Union workplace exposure limit.
- The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Do not perform artificial respiration without self-protection (e.g. a mask). Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

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### If swallowed

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

#### If inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

#### If on skin

May cause an allergic skin reaction.

#### If in eyes

Causes serious eye irritation.

#### If swallowed

Irritation, nausea.

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

Symptomatic treatment. If you see a doctor, take this safety data sheet with you. Pay attention: contains organic solvents. Ingestion or vomiting may occur due to aspiration into the lungs and then a rapid absorption and damage to other organs. In case of suspected break-liquid ingredients into the lungs get medical help immediately. Get medical supervision for at least 48 hours after ingestion of liquid.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

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### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### 7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

#### 7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

#### 7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

### 7.2. Conditions for safe storage, including any incompatibilities

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).



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Storage class	3A - Flammable liquids (flash point below 55 °C)
Storage temperature	min 5 °C, max 25 °C

### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

### 7.3. Specific end use(s)

Use in coating compositions was assessed for substance xylene. Conditions of safe use of the registered coating composition components specified in exposure scenarios to SDSs of the components are incorporated to this Safety Data Sheet and its Annex.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
xylenes	OEL 8 hours	221 mg/m <sup>3</sup>	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m <sup>3</sup>	
	OEL 15 minutes	100 ppm	

#### DNEL

##### 2,2'-methylenediphenyl diisocyanate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.05 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	0.1 mg/m <sup>3</sup>	Local acute effects		
Consumers	Inhalation	0.025 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Inhalation	0.05 mg/m <sup>3</sup>	Local acute effects		

##### 4,4'-methylenediphenyl diisocyanate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.05 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	0.1 mg/m <sup>3</sup>	Local acute effects		
Consumers	Inhalation	0.025 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Inhalation	0.05 mg/m <sup>3</sup>	Local acute effects		



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o-(p-isocyanatobenzyl)phenyl isocyanate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.05 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	0.1 mg/m <sup>3</sup>	Local acute effects		
Consumers	Inhalation	0.025 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Inhalation	0.05 mg/m <sup>3</sup>	Local acute effects		

xylene ( mixture of isomers and ethylbenzene )

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	221 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Inhalation	442 mg/m <sup>3</sup>	Systemic acute effects		
Workers	Inhalation	442 mg/m <sup>3</sup>	Local acute effects		
Workers	Dermal	212 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	65.3 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Inhalation	260 mg/m <sup>3</sup>	Systemic acute effects		
Consumers	Inhalation	260 mg/m <sup>3</sup>	Local acute effects		
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	12.5 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	221 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Inhalation	65.3 mg/m <sup>3</sup>	Local chronic effects		

### PNEC

2,2'-methylenediphenyl diisocyanate

Route of exposure	Value	Value determination	Source
Freshwater environment	1 mg/l		
Seawater	0.1 mg/l		
Microorganisms in wastewater treatment plants	1 mg/l		
Soil (agricultural)	1 mg/kg of dry substance of soil		
Water (intermittent release)	10 mg/l		

4,4'-methylenediphenyl diisocyanate

Route of exposure	Value	Value determination	Source
Freshwater environment	3.7 µg/l		
Seawater	0.37 µg/l		
Soil (agricultural)	2.33 mg/kg of dry substance of soil		

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## 4,4'-methylenediphenyl diisocyanate

Route of exposure	Value	Value determination	Source
Water (intermittent release)	37 µg/l		
Freshwater sediment	11.7 mg/kg of dry substance of sediment		
Sea sediments	1.17 mg/kg of dry substance of sediment		

## o-(p-isocyanatobenzyl)phenyl isocyanate

Route of exposure	Value	Value determination	Source
Freshwater environment	1 mg/l		
Seawater	0.1 mg/l		
Microorganisms in wastewater treatment plants	1 mg/l		
Soil (agricultural)	1 mg/kg of dry substance of soil		
Water (intermittent release)	10 mg/l		

## xylene ( mixture of isomers and ethylbenzene )

Route of exposure	Value	Value determination	Source
Drinking water	0.327 mg/l		
Seawater	0.327 mg/l		
Water (intermittent release)	0.327 mg/l		
Microorganisms in wastewater treatment plants	6.58 mg/l		
Freshwater sediment	12.46 mg/kg of dry substance of sediment		
Sea sediments	12.46 mg/kg of dry substance of sediment		
Soil (agricultural)	2.31 mg/kg of dry substance of soil		

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### 8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

#### Eye/face protection

Protective goggles (closed eye protection) resistant to organic solvent or face shield.

#### Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream.

Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – PVA, fluoroelastomere and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

#### Respiratory protection

Don't breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

#### More information

Exposure scenario is attached to the Safety Data Sheet.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
color intensity	transparent
Odour	typical aromatic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Flammable liquid and vapour.
Lower and upper explosion limit	data not available
Flash point	>25 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	<20,5 mm <sup>2</sup> /s at 40 °C
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available

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Density and/or relative density

Density

 0,90-0,912 g/cm<sup>3</sup> at 23 °C

Form

liquid

### 9.2. Other information

Evaporation rate

data not available

Oxidising properties

The product has no oxidizing properties.

Content of organic solvents (VOC)

0,81 kg/kg

Total organic carbon (TOC)

0,62 kg/kg

Solid content (dry matter)

15 % volume

VOC limit value

cat. A (h) SB: 750 g/l

Max. VOC content in the product in its ready to use condition

740 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

### 10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

### 10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

#### Acute toxicity

Harmful in contact with skin or if inhaled.

2,2'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD <sub>50</sub>	OECD 402	>9400 mg/kg		Rabbit	M
Oral	LC <sub>50</sub>		5000 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )	
Inhalation	LC <sub>50</sub>		0.527 mg/l	4 hour	Rat ( <i>Rattus norvegicus</i> )	F/M

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### 4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD <sub>50</sub>	OECD 402	>9400 mg/kg		Rabbit	F/M
Inhalation (dust/mist)	LC <sub>50</sub>	OECD 403	0.368 mg/l	4 hour	Rat (Rattus norvegicus)	M
Oral	LD <sub>50</sub>		>2000 mg/kg		Rat (Rattus norvegicus)	F/M

### aromatic polyisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD <sub>50</sub>	OECD 402	>9400 mg/kg		Rabbit	F/M

### o-(p-isocyanatobenzyl)phenyl isocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>		>2000 mg/kg		Rat (Rattus norvegicus)	F/M
Dermal	LD <sub>50</sub>		9400 mg/kg bw		Rabbit	
Inhalation	LC <sub>50</sub>		0.387 mg/l	4 hour	Rat (Rattus norvegicus)	M

### Polymeric diphenylmethane diisocyanate, Polymeric MDI

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	>10000 mg/kg		Rat (Rattus norvegicus)	F/M
Dermal	LD <sub>50</sub>	OECD 402	>9400 mg/kg		Rabbit	F/M
Inhalation (dust/mist)	LC <sub>50</sub>	OECD 403	0.31 mg/l	4 hour	Rat (Rattus norvegicus)	F/M

### xylene ( mixture of isomers and ethylbenzene )

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	EU B.1	3523 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation	LC <sub>50</sub>	EU B.2	27124 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)	M
Dermal	LD <sub>50</sub>		12126 mg/kg bw		Rabbit	

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

### Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard

May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

Harmful to aquatic life with long lasting effects.

2,2'-methylenediphenyl diisocyanate

Parameter	Method	Value	Exposure time	Species	Environment
EC <sub>50</sub>	OECD 209	>100 mg/l	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge

4,4'-methylenediphenyl diisocyanate

Parameter	Method	Value	Exposure time	Species	Environment
EC <sub>50</sub>	OECD 209	>100 mg/l	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge
LC <sub>50</sub>	OECD 203	>1000 mg/l	96 hour	Fishes (Danio rerio)	
EC <sub>50</sub>	OECD 202	>1000 mg/l	24 hour	Daphnia (Daphnia magna)	
ErC <sub>50</sub>	OECD 201	>1640 mg/l	72 hour	Algae (Scenedesmus subspicatus)	

aromatic polyisocyanate

Parameter	Method	Value	Exposure time	Species	Environment
EC <sub>50</sub>	OECD 209	>100 mg/l	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge

o-(p-isocyanatobenzyl)phenyl isocyanate

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>	OECD 203	>1000 mg/l	96 hour	Fishes (Danio rerio)	
EC <sub>50</sub>	OECD 202	>1000 mg/l	24 hour	Daphnia (Daphnia magna)	
ErC <sub>50</sub>	OECD 201	>1640 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
EC <sub>50</sub>	OECD 209	>100 mg/l	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge

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Polymeric diphenylmethane diisocyanate, Polymeric MDI

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>	OECD 203	>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>	OECD 202	>1000 mg/l	24 hour	Daphnia (Daphnia magna)	
ErC <sub>50</sub>	OECD 201	>1640 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
EC <sub>50</sub>	OECD 209	>100 mg/l	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge

xylene ( mixture of isomers and ethylbenzene )

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		2.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>		1 mg/l	48 hour	Daphnia (Daphnia magna)	
LC <sub>50</sub>		2.2 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

### Chronic toxicity

xylene ( mixture of isomers and ethylbenzene )

Parameter	Value	Exposure time	Species	Environment
NOEC	>1.3 mg/l	56 day	Fishes (Oncorhynchus mykiss)	
NOEC	0.96-1.17 mg/l	7 day	Invertebrates (Ceriodaphnia dubia)	

### 12.2. Persistence and degradability

#### Biodegradability

xylene ( mixture of isomers and ethylbenzene )

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	>90 %	28 day		Easily biodegradable

Data for mixture not available.

### 12.3. Bioaccumulative potential

xylene ( mixture of isomers and ethylbenzene )

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	25900 ml/kg				
Log Pow	3.12-3.2				

Data for mixture not available.

### 12.4. Mobility in soil



according to Regulation (EC) No 1907/2006 (REACH) as amended

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xylene ( mixture of isomers and ethylbenzene )

Parameter	Value	Environment	Temperature
Koc	48-129		

Not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**12.7. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

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

**Packaging waste type code**

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information****14.1. UN number or ID number**

UN 1263

**14.2. UN proper shipping name**

PAINT

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

3 Flammable liquids

**14.4. Packing group**

III - substances presenting low danger

**14.5. Environmental hazards**

The product is not environmentally hazardous.

**14.6. Special precautions for user**

Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls.

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

Not classified.

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### Additional information

Hazard identification No.	<b>30</b>
UN number	<b>1263</b>
Classification code	F1
Safety signs	3



### Air transport - ICAO/IATA

Packaging instructions passenger	355
Cargo packaging instructions	366

### Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
MFAG	310

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. COMMISSION REGULATION (EU) 2020/1149 of 3 August 2020 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards diisocyanates.

#### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, 2,2'-methylenediphenyl diisocyanate

Restriction	Conditions of restriction
56	1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging: <ul style="list-style-type: none"> <li>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC (*****);</li> <li>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:                             <ul style="list-style-type: none"> <li>— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.</li> <li>— Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</li> <li>— This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used."</li> </ul> </li> </ul>
74	1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures

according to Regulation (EC) No 1907/2006 (REACH) as amended

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4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, 2,2'-methylenediphenyl diisocyanate

Restriction	Conditions of restriction
	<p>for industrial and professional use(s) after 24 August 2023, unless:</p> <p>(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or</p> <p>(b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture (s).</p> <p>2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:</p> <p>(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or</p> <p>(b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".</p> <p>3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.</p> <p>4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:</p> <p>(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).</p> <p>(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:</p> <ul style="list-style-type: none"> <li>– handling open mixtures at ambient temperature (including foam tunnels);</li> <li>– spraying in a ventilated booth;</li> <li>– application by roller;</li> <li>– application by brush;</li> <li>– application by dipping and pouring;</li> <li>– mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore;</li> <li>– cleaning and waste;</li> <li>– any other uses with similar exposure through the dermal and/or inhalation route;</li> </ul> <p>(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:</p> <ul style="list-style-type: none"> <li>– handling incompletely cured articles (e.g. freshly cured, still warm);</li> <li>– foundry applications;</li> <li>– maintenance and repair that needs access to equipment;</li> <li>– open handling of warm or hot formulations (&gt; 45 °C);</li> <li>– spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers);</li> <li>– and any other uses with similar exposure through the dermal and/or inhalation route.</li> </ul> <p>5. Training elements:</p> <p>(a) general training, including on-line training, on:</p> <ul style="list-style-type: none"> <li>– chemistry of diisocyanates;</li> <li>– toxicity hazards (including acute toxicity);</li> <li>– exposure to diisocyanates;</li> <li>– occupational exposure limit values;</li> <li>– how sensitisation can develop;</li> <li>– odour as indication of hazard;</li> <li>– importance of volatility for risk;</li> <li>– viscosity, temperature, and molecular weight of diisocyanates;</li> <li>– personal hygiene;</li> <li>– personal protective equipment needed, including practical instructions for its correct use and its</li> </ul>

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4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, 2,2'-methylenediphenyl diisocyanate

Restriction	Conditions of restriction
	limitations; <ul style="list-style-type: none"> <li>– risk of dermal contact and inhalation exposure;</li> <li>– risk in relation to application process used;</li> <li>– skin and inhalation protection scheme;</li> <li>– ventilation;</li> <li>– cleaning, leakages, maintenance;</li> <li>– discarding empty packaging;</li> <li>– protection of bystanders;</li> <li>– identification of critical handling stages;</li> <li>– specific national code systems (if applicable);</li> <li>– behaviour-based safety;</li> <li>– certification or documented proof that training has been successfully completed</li> </ul> (b) intermediate level training, including on-line training, on: <ul style="list-style-type: none"> <li>– additional behaviour-based aspects;</li> <li>– maintenance;</li> <li>– management of change;</li> <li>– evaluation of existing safety instructions;</li> <li>– risk in relation to application process used;</li> <li>– certification or documented proof that training has been successfully completed</li> </ul> (c) advanced training, including on-line training, on: <ul style="list-style-type: none"> <li>– any additional certification needed for the specific uses covered;</li> <li>– spraying outside a spraying booth;</li> <li>– open handling of hot or warm formulations (&gt; 45 °C);</li> <li>– certification or documented proof that training has been successfully completed</li> </ul> 6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.                     7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.                     8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.                     9. Member States shall include in their reports pursuant to Article 117(1) the following information: <ul style="list-style-type: none"> <li>(a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law;</li> <li>(b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates;</li> <li>(c) national exposure limits for diisocyanates, if there are any;</li> <li>(d) information about enforcement activities related to this restriction.</li> </ul> 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

### 15.2. Chemical safety assessment

The chemical safety assessment has been carried out on xylene. The relevant exposure scenarios for the components are incorporated in the annex to the safety data sheet.

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H226	Flammable liquid and vapour.
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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.
H412	Harmful to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.

### Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P342+P311	If experiencing respiratory symptoms: Call a doctor.
P260	Do not breathe vapours.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a doctor.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization

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IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

As from 24 August 2023 adequate training is required before industrial or professional use.

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 19.3.2018. Overall revision of SDS according to Commission Regulation (EU) 2020/878.

## Statement

according to Regulation (EC) No 1907/2006 (REACH) as amended

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The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.



## Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO

### 1. Industrial use

Application sector	: SU 3
Chemical product category	: PC9a
Partial processes covered by exposure scenario:	PROC1, PROC2, PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC13, PROC15
Environmental release	: ERC4

#### Basic conditions to control the hazard for workers:

Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.
Temperature	: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.
General risk management measures	: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances.
Site where the activities are performed	: Indoor use is anticipated.

#### Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product (Partial contributing scenarios)	Process category	Required additional measures to control worker exposure
Pumping from/to containers and devices within a closed system with no possibility to release emission	PROC 1 Use within closed production process	Does not require further risk control measures.
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Application by spraying.	PROC 7 Industrial spraying.	Robotic spraying in closed chambers or closed cabs with laminar extraction. In course of spraying, enter the chambers only with self-contained respirator.  Manual spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter.
Manual coating composition application by roller, brush or palette knife.	PROC 10 Roller, palette knife or brush application	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Dipping or pouring application of coating composition.	PROC 13 Treatment of articles by dipping and pouring	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Carry out in well ventilated spaces (3-5 air exchanges per hour).
Continuous drying and hardening processes of the coating composition film at increased temperature in drying tunnels equipped with vapour extraction	PROC 2 Use within continuous chemical production process with occasional controlled exposure (e.g. at sampling).	Does not require further risk control measures.
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.
Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction	PROC 3 Use within closed batch process of mixture manufacturing	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller, palette knife or brush application (by a tool held in hand)  PROC8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).

Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Good ventilation (3 – 5 air exchanges per hour).
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

#### Additional requirements to control environmental hazards

Air emission control	When spraying, remove fly coating mist from the air extracted from the work site. If the limits for solvent consumption defined in Ordinance no. 415/2012 Coll. are exceeded, use solvent recuperation from waste air or remove the solvents by incineration or other processes guaranteeing observation of emission parameters specified in air protection regulations.
Water emission control	Store the coating and waste contaminated by coat in buildings structurally protected from leakage release and emergency release to surface and ground water. Treat water contaminated by coat compounds and remove solid impurities and organic compounds by sedimentation, filtration, biological treatment processes or special processes developed for treatment of water contaminated by coating compositions before discharging to surface water. When discharging the treated waste water, observe the contamination parameters specified for the involved facility by water management authority.
Disposal of waste	Dispose of coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed.

## 2. Professional use

Application sector	: SU 22
Chemical product category	: PC9a
Partial processes covered by exposure scenario:	PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19
Environmental release	: ERC 8a, ERC 8d

#### Basic conditions to control the hazard for workers:

Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.
Temperature	: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.
General risk management measures	: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances.
Site where the activities are performed	: Indoor and outdoor use is anticipated.

#### Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product (Partial contributing scenarios)	Process category	Required additional measures to control worker exposure
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: secure catch dripping paint
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: working process a maximum of 4h per day does not require further risk control measures or use respiratory protection with filter type A.
Application by spraying.	PROC 11 Non industrial spraying.	Indoor: do spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory

		protection (half-face or full-face respirator) provided with type A/P2 filter. Outdoor: use respiratory protection with filter type A/P2.
Manual coating composition application by roller, brush or palette knife.	PROC 10 Roller, palette knife or brush application	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures
Dipping or pouring application of coating composition.	PROC 13 Treatment of articles by dipping and pouring	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: use respiratory protection with filter type A.
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Indoor: carry out in well ventilated spaces (5 -- 10 air exchanges per hour). Outdoor: does not require further risk control measures
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.
Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction	PROC 3 Use within closed batch process of mixture manufacturing	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller, palette knife or brush application (by a tool held in hand)	Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures
Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Good ventilation (3 – 5 air exchanges per hour).
Manual activities involving hand contact	PROC19 Hand-mixing with intimate contact and only PPE available	Indoor. Use protective gloves, local air extraction at potential emission release or good ventilation Outdoor: use protective gloves
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

#### Additional requirements to control environmental hazards

Air emission control	Does not require special risk control measures
Water emission control	Store the paints and waste contaminated by paints in buildings structurally protected from leakage release and emergency release to surface and ground water. Clean up waste water contaminated by paints in the Municipal wastewater treatment plants before discharging to surface water or capture or dispose them as hazardous waste in cooperation with the authorized person. Overspray and drips paint as possible to capture and dispose as hazardous waste.
Disposal of waste	Prevent leakage or discharge of any liquid waste into surface and groundwater unless it is cleaned up from the paint compounds. Dispose of paint waste and materials contaminated by paints and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste.