

**DRG 5710 AG Silk matt, Component B****Safety Data Sheet**

pursuant to Regulation (EC) No 453/2010

Publication date: 03/07/2024

Revision date: // Version: 1.0

SECTION 1: Identification of the substance or mixture and of the company/undertaking					
1.1	Product identification Product form: Mixture Product code: DRG 5710 AG Silk matt, Component B Product group: PU Flooring				
1.2	Relevant identified use Main usage category Industrial/Professional use spec. Use of the substance or the mixture; Forms of use that are advised against			DIY Industrial use For professional use only Flooring No additional information available	
1.3	Dutch Resin Group P.O. Box 1074 7301 BH Apeldoorn T +31 (0)55 312 44 65 <a href="mailto:info@dutchresin.nl">info@dutchresin.nl</a>			Visiting address Gladsaxe 19 Apeldoorn	
1.4	Emergency number: T +31 (0)55 312 44 65 This number is only available during office hours.				
	Land	Official advisory body	Address	Emergency number	
	NETHERLANDS	National Poisons Information Center.  University Medical Center Utrecht, The National Poisons Information Center (NVIC) informs doctors, veterinarians, pharmacists, and other healthcare professionals about the possible health effects and treatment options for poisonings. The NVIC is available for this purpose day and night, both by telephone and via the internet.	P.O. Box 85500 3508 GA Utrecht	+31 30 274 88 88	
SECTION 2: Identification of hazards					
2.1	Classification of the substance or mixture  Acute toxicity, Inhalation, Category 4 (H332) Skin sensitization, Sub-category 1B (H317) Specific target organ toxicity (single exposure), Category 3 (H335) Chronic hazard to the aquatic environment, Category 3 (H412)				
2.2	Labeling elements  Hazardous ingredients that must be listed on the label Hydrophilic, aliphatic polyisocyanate Hazard statements: H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic organisms, with long-lasting effects.  Precautionary measures P261 Avoid inhalation of dust/ smoke/ gas/ mist/ vapor/ spray. P273 Avoid release into the environment. P280 Wear protective gloves. P304 + P340 + P312 AFTER INHALATION: move the person to fresh air and ensure				


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		<p>Ensure that he can breathe easily. If feeling unwell, consult a POISON CONTROL CENTER/doctor.  P333 + P313 If skin irritation or rash occurs: consult a doctor.  P362 + P364 Remove and wash contaminated clothing before reuse.</p> <p>Additional risk characteristics and labelling elements: EUH204  Contains isocyanates. May cause an allergic reaction.</p>  <p>Warning GHS07</p>												
2.3	Other dangers													
		<ul style="list-style-type: none"> <li>• Results of PBT and zPzB assessment</li> <li>• PBT: Not usable.</li> <li>• zPzB: Not usable.</li> </ul>												
<b>SECTION 3: Composition and information on ingredients</b>														
3.2	Mixture of hazardous and non-hazardous substances													
		<table border="1"> <thead> <tr> <th>name</th> <th>Product identification</th> <th>%</th> <th>Classification in accordance with Regulation (EC) No 1272/2008 [CLP]</th> </tr> </thead> <tbody> <tr> <td>Hydrophilic aliphatic polyisocyanate</td> <td>CAS No.: 666723-27-9 REACH registration number: N/A EC No.: 679-494-0</td> <td>&gt;99.9</td> <td>Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412</td> </tr> <tr> <td>hexamethylene-1,6-diisocyanate</td> <td>CAS No.: 822-06-0 Index no.: 615-011-00-1 REACH registration number: 01-2119457571-37-0000, 01-2119457571-37-0005, 01-2119457571-37-0006</td> <td>0.2</td> <td>Acute Tox. 4; H302 Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT SE 3; H335 Specific concentration limits: Resp. Sens. 1; H334 ÿ 0.5 % Skin Sens. 1; H317 ÿ 0.5 %</td> </tr> </tbody> </table>	name	Product identification	%	Classification in accordance with Regulation (EC) No 1272/2008 [CLP]	Hydrophilic aliphatic polyisocyanate	CAS No.: 666723-27-9 REACH registration number: N/A EC No.: 679-494-0	>99.9	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	hexamethylene-1,6-diisocyanate	CAS No.: 822-06-0 Index no.: 615-011-00-1 REACH registration number: 01-2119457571-37-0000, 01-2119457571-37-0005, 01-2119457571-37-0006	0.2	Acute Tox. 4; H302 Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT SE 3; H335 Specific concentration limits: Resp. Sens. 1; H334 ÿ 0.5 % Skin Sens. 1; H317 ÿ 0.5 %
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		<p>No exposure scenarios are required for the above-mentioned contaminants of the substances under Article 3(1) of Regulation (EC) No 1907/2006.  Candidate list of substances, great care regarding authorization  This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).</p>												
		Full content of the R, H and EUH phrases: see section 16												
<b>SECTION 4: First aid measures</b>														
4.1	Description of the first aid measures													
		<p>General advice: Immediately remove, disinfect, and dispose of soiled or soaked clothing and shoes.</p> <p>In case of inhalation: Move person to fresh air, keep warm, allow to rest; medical assistance is required if breathing difficulties occur.</p>												

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		<p>In case of contact with skin: In case of contact with skin, preferably wash with a cleanser based on polyethylene glycol or clean with plenty of warm water and soap.</p> <p>In case of skin reactions, consult a doctor.</p> <p>In case of contact with eyes: Rinse open eyes with lukewarm water for a sufficient length of time (at least 10 minutes), if possible. Consult an ophthalmologist.</p> <p>If swallowed: DO NOT induce vomiting. Rinse mouth with water. Medical advice required.</p>
4.2		Main acute and delayed symptoms and effects
		Notes for the physician: The product irritates the respiratory tract and can cause hypersensitivity of the skin and respiratory tract. Treatment of acute irritation or bronchoconstriction is primarily symptomatic. Depending on the degree of exposure and symptoms, prolonged medical care may be necessary.
4.3		Indication of the required immediate medical care and special treatment
		Therapeutic measures: No data available.
<b>SECTION 5: Firefighting measures</b>		
5.1		Extinguishing equipment
		<p>Suitable extinguishing agents: Foam, carbon dioxide, or dry powder. If no other extinguishing agent is available, atomized water and then copious amounts of water may be used.</p> <p>Unsuitable extinguishing agents: Strong water jet</p>
5.2		Special hazards caused by the substance or mixture
		<p>Special protective equipment: Firefighters must wear suitable protective equipment and a pressurized air self-rescue device with the corresponding full mask. They must wear safety footwear, safety gloves, a safety helmet, and protective clothing.</p> <p>Further information: Do not inhale smoke in the event of a fire or explosion. Fire in the environment causes increasing pressure and a risk of rupture. Containers exposed to fire risk must be cooled with water and, if possible, removed from the hazardous area. A reaction with water produces CO<sub>2</sub> gas, which can lead to a dangerous increasing pressure once the contaminated containers have been resealed. The containers may explode if overheated. Prevent contaminated extinguishing water from entering the soil and groundwater and surface water.</p>
5.3		Advice for firefighters
		During firefighting, respiratory protection with independent air supply and a tight-fitting chemical protective suit are required. Do not allow contaminated extinguishing water to penetrate the soil, groundwater, or surface water.
<b>SECTION 6: Measures in the event of accidental release of the substance or mixture</b>		
6.1		Personal precautions, protective equipment and emergency procedures
		Put on safety clothing (see section 8). Ensure adequate airflow and ventilation. Keep uninvolved persons at a distance
6.11	For	persons other than emergency services
		<p>Protective equipment: Equip cleaning staff with appropriate protection. Emergency procedures: Keep spectators at a distance.</p>
6.12	For	the emergency services
		additional information available
6.2		Environmental precautions
		Prevent penetration into the soil/subsoil. Prevent runoff into surface water or the sewer. Retain the contaminated rinse water and dispose of it. In case

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		Notify the responsible authorities of a gas leak or infiltration into watercourses, soil, or sewers. Suitable material for collection: absorbent material, organic matter, sand.																
6.3		Methods and material for containment and cleaning up																
6.3		Remove mechanically; cover the residue with damp, liquid-absorbent material (e.g., sawdust, calcium silicate hydrate-based chemical binder, sand). After approx. 1 hour, place in waste packaging; do not seal (CO <sub>2</sub> generation!). Keep moist and leave outdoors in a safe place for several days.																
6.4		Reference to other sections.																
		Regarding waste disposal after cleaning, see section 13. See section 8 regarding the use of personal protective equipment.																
<b>SECTION 7: Handling and storage</b>																		
7.1		Precautions for the safe handling of the substance or mixture																
		<p>General terms and conditions of use are further specified in the annex in accordance with REACH Regulation (EC) No 1907/2006.</p> <p>Ensure adequate ventilation and/or extraction in the workplace. Air extraction is required for spray application.</p> <p>For solid products: Avoid dust generation and dust deposition.</p> <p>The air limit values mentioned in Paragraph 8 must be respected.</p> <p>In workplaces where isocyanate aerosols and/or vapors may be generated in higher concentrations, exceedance of the air limit value must be prevented by targeted air extraction. Air circulation must take place away from the persons.</p> <p>For products containing solvents: Protection against explosion required.</p> <p>The personal safety measures described in Paragraph 8 must be observed. The safety measures required when handling isocyanates must be observed. Avoid contact with skin and eyes as well as inhalation of vapors.</p> <p>Keep separate from food and beverages. Wash hands and use skin protection ointment before breaks and after finishing work. Keep work clothing separate.</p> <p>Remove contaminated clothing immediately.</p>																
7.2		Conditions for safe storage, including incompatible products																
		Keep dry and store in a tightly closed container. Further storage information to ensure quality can be found in our technical product information sheet.																
7.3		Specific end-use																
		B Component coating																
<b>SECTION 8: Exposure control measures/personal protection</b>																		
8.1		Control parameters																
		<p>Substance: Hexamethylene diisocyanate CAS number: 822-06-0</p> <table border="1"> <thead> <tr> <th colspan="2">Limit value (8 hours) mg/</th> <th colspan="2">Threshold value (short term)</th> </tr> <tr> <th></th> <th>m<sup>3</sup> ppm</th> <th>ppm</th> <th>mg/m<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td>0.005</td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.035</td> <td></td> <td>0.005</td> <td>0.035</td> </tr> </tbody> </table>	Limit value (8 hours) mg/		Threshold value (short term)			m <sup>3</sup> ppm	ppm	mg/m <sup>3</sup>	0.005				0.035		0.005	0.035
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8.2		Measures to control exposure																
		<p>Protection of the respiratory tract</p> <p>Nose and mouth protection is required in case of insufficient ventilation at the workplace and during injection molding. A fresh-air mask is recommended, or for short-term work, a combination filter A2-P2.</p> <p>Further recommendations regarding respiratory protection are to</p>																

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find in the individual exposure scenarios in the appendix.  
 Use of this product is advised against in case of hypersensitivity of the respiratory tract and skin (asthma, chronic bronchitis, chronic skin diseases).  
**Hand protection**  
 Suitable material for safety gloves; EN 374:  
 Butyl rubber - IIR: thickness  $\geq 0.5\text{mm}$ ; Breakthrough time  $\geq 480\text{min}$ .  
 Fluororubber - FKM: thickness  $\geq 0.4\text{mm}$ ; Breakthrough time  $\geq 480\text{min}$ .  
 Advice: remove contaminated gloves.  
**Eye protection**  
 Wear eye/face protection.  
**Skin and body protection**  
 Wear suitable protective clothing.

**SECTION 9: Physical and chemical properties**

9.1	Information about basic physical and chemical properties
	<p>Physical state: liquid (20 °C, 1013 hPa)          Color: colorless to yellowish          Odor: slight          Melting point/freezing point: approx. -22 °C          Boiling point or initial boiling point and boiling range: &gt; 300 °C (1013 hPa)          Flammability: Non-combustible.          Lower and upper explosion limits: No data.          Flash point: approx. 196 °C (1,013 hPa)          Autoignition temperature: approx. 425 °C          Decomposition temperature: No data.          pH: No data.          Kinematic viscosity: No data.          Solubility: Water: Immiscible. (15 °C)          Polar and non-polar solvents: No data          Partition coefficient n-octanol/water: No data.          Vapor pressure: approx. 17 hPa (20 °C); approx. 26 hPa (50 °C); approx. 28 hPa (55 °C)          Density and/or relative density: approx. 1.16 g/cm<sup>3</sup> (20 °C)          Relative vapor tightness: No data.          Particle characteristics: Not applicable.          Dynamic viscosity: 1500-3500 mPa.s (25 °C)          Explosion properties: Non-explosive.          Oxidizing properties: None</p>
9.2	Other information
	The values provided do not correspond to the product specification for every case. The specifications must be taken from the technical information sheet.

**SECTION 10: Stability and reactivity**

10.1	Reactivity
	No additional information available
10.2	Chemical stability
	Not determined.
10.3	Possible dangerous reactions
	Exothermic reaction with amines and alcohols; with water, CO <sub>2</sub> evolution; increased pressure in closed packaging; risk of bursting.
10.4	Conditions to be avoided
	This information is not available.

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	10.5 Chemically interacting materials	
		This information is not available.
	10.6 Dangerous decomposition products.	
		No hazardous decomposition products with professional storage and handling.
<b>SECTION 11: Toxicological information</b>		
	11.1	Information about toxicological effects
		<p>The data relate to hexamethylene diisocyanate oligomers (CAS 28182-81-2).</p> <p>Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Acute toxicity – oral: Rats (female) LD50 &gt; 2500 mg/ kg body weight (14 days) Method: OECD Guideline 423 Acute</p> <p>toxicity – inhalation (aerosol): Rats (female/ male) LC50 = 462 mg/m<sup>3</sup> air (4 hours) Method: OECD Guideline 403 Acute</p> <p>toxicity – via the skin: Rats (female/ male) LD50 &gt; 2000 mg/kg bw (24 hours) Method: OECD Guideline 402 Skin</p> <p>corrosion/irritation Rabbits</p> <p>Mild irritating effect. (4 hours) Method: OECD Guideline 404</p> <p>Serious eye damage/eye irritation Rabbits Mildly irritating effect. (72 hours) Method: OECD Guideline 405</p> <p>Respiratory/skin sensitization Skin sensitization: Guinea pigs (female)</p> <p>Sensitization. (72 hours) Method: OECD Guideline 406</p> <p>Respiratory sensitization: Guinea pigs (aerosol; female) Non-sensitizing. (5 days) Method: OECD TG 403</p> <p>Germ cell mutagenicity Gene mutation, in vitro: S. typhimurium Negative. Method: OECD Guideline 471</p> <p>Carcinogenicity: No data available. Reproductive toxicity Developmental toxicity: Rats (inhalation: vapor; female) NOAEC = 1.0 mg/m<sup>3</sup> air (6-19 days, 6 hours/day)</p> <p>Method: OECD Guideline 414 (Cross-reference to isophorone diisocyanate – CAS 4098-71-9.) SOT upon single exposure: May cause respiratory irritation. STOT upon repeated exposure Rats (inhalation: aerosol) NOAEL = 3.3 mg/m<sup>3</sup></p>

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		<p>air (13 weeks, 6 hours/day, 5 days/week)  Method: OECD Guideline 413 Hazard</p> <p>by inhalation: No data available.</p> <p><b>Information on other hazards</b>  Endocrine disrupting properties: Based on available data; the classification criteria have not been met.  Other information: No data.</p>
<b>SECTION 12: Ecological information</b>		
	12.1	toxicity
		<p>Short-term toxicity in fish: Freshwater fish (Danio rerio) LL0 <math>\dot{y}</math> 100 mg/l (96 hours)  Method: EU Method C.1 Short-term toxicity in aquatic invertebrates: Freshwater invertebrates (Daphnia magna) EL50 = 127 mg/l (48 hours)  Method: EU Method C.2 Toxicity of freshwater algae and cyanobacteria: Freshwater algae (Desmodesmus subspicatus) EC50 &gt;1000 mg/l (72 hours)  Method: OECD Guideline 201 Toxicity of microorganisms: Microorganisms (activated sludge) EC50 = 3828 mg/l (3 hours)  Method: OECD Guideline 209.</p>
	12.2	Persistence and degradability
		<p>Phototransformation in air: Half-life (DT50) 0.427 days Method: AOP Program v1.92 Hydrolysis: Half-life (DT50) approx. 7.7 h (23 °C)  Method: ASTM D4666</p> <p>Biodegradation in water: 1% (28 days)  Method: OECD Guideline 301 D</p>
	12.3	Bioaccumulation:
		Bioaccumulation - in water/sediment: BCF 88.7 l/kg
	12.4	Mobility in the soil
		<p>Adsorption/desorption: log Koc (absorption coefficient) 6.266 Method: KOCWIN v2.00 Volatility: H (Henry constant) <math>1.3 \cdot 10^{-12}</math> Pa.m<sup>3</sup> /mol (at 25 °C)  Method: HENRYWIN v4.11</p>
	12.5	Results of PBT and vPvB assessment This substance/
		mixture contains no components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
	12.6	Other harmful effects
		<p>Isocyanate reacts with water at the interface, forming CO<sub>2</sub> and a solid, insoluble product with a high melting point (polyurea). This reaction is strongly promoted by surfactants (e.g., liquid soap) or water-soluble substances.</p> <p>Based on current experience, polyurea is inert and non-biodegradable.</p>
	12.7	Other harmful effects
		Dust is not expected to have an impact on global warming, the dilution of

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		the ozone layer in the stratosphere or the accumulation of ozone in the troposphere. Secondary poisoning: Based on the available data, there is no signal indicating bioaccumulative potential, and therefore we do not consider secondary poisoning to be essential. Exposure to birds is not expected.
<b>SECTION 13 Disposal instructions</b>		
	13.1 Waste processing methods	
		After the final product withdrawal, product residues must be removed from the packaging (drip-free, powder-free, paste-free). After neutralization of product residues remaining on the walls, products bearing the hazard warning must be disposed of. These packages may be handed over, specifically per packaging medium, to the collection points of the existing take-back systems of the chemical industry for recycling. Reuse or recycling must be carried out in accordance with national laws and regulations and environmental protection measures.  No discharge via wastewater.
<b>SECTION 14: Information regarding transport</b>		
		Land transport (ADR / RID / GGVSEB)
	14.1 UN number	
		ADR-UN Number: Non-dangerous goods IATA-UN Number: Non-dangerous goods IMDG-UN Number: Non-hazardous goods
	14.2 Proper shipping name in accordance with the UN Model Regulations:	
		ADR Shipping Name: Non-dangerous goods IATA Shipping Name: Non-dangerous goods IMDG-Shipping Name: Non-hazardous goods
	14.3 Transport hazard class(es):	
		ADR Class: Non-dangerous goods ADR - Hazard identification number: Non-dangerous goods IATA Class: Non-dangerous goods IATA Label: Non-dangerous goods IMDG Class: Non-hazardous goods IMDG Class: Non-hazardous goods
	14.4 Packaging group:	
		ADR-Packing Group: Non-hazardous goods IATA Packing group: Non-dangerous goods IMDG-Packing group: Non-hazardous goods
	14.5 Environmental hazards:	
		ADR Environmental pollutant: Non-hazardous goods IMDG-Marine pollutant: Non-hazardous goods
	14.6 Special precautions for the user:	
		See sections 6-8. Further instructions: No dangerous goods to transport. Protect against moisture. Heat sensitive from +50 °C. Cold sensitive from +10 °C. Keep separate from foodstuffs, stimulants, acids, and alkalis
	14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code	
		Not applicable
<b>SECTION 15: Regulations</b>		

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15.1	Specific safety, health and environmental regulations and legislation for the substance or mixture Specific safety,
	<p>health and environmental regulations and legislation for the substance or mixture</p> <p>REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on ozone-depleting substances: Falls outside the scope thereof.</p> <p>REGULATION (EC) No 850/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC: Falls outside the scope thereof.</p> <p>REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the import and export of dangerous chemical substances: Falls outside the scope thereof.</p> <p>Directive 2012/18/EC of the European Parliament and of the Council of 4 July 2012 on major accident control involving dangerous substances, amending and subsequently repealing Directive</p> <p>Council Regulation 96/82/EC: Falls outside the scope of this.</p> <p>European Union Regulations</p> <ul style="list-style-type: none"> <li>• Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 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.</li> <li>• Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing</li> </ul> <p>Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Directive Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives Text relevant to the EEA.</p> <ul style="list-style-type: none"> <li>• International Chemical Safety Data Sheets (WHO/IPCS/ILO)</li> <li>• ISOPA guidelines (<a href="http://www.isopa.org">www.isopa.org</a>)</li> </ul>
15.2	Chemical safety assessment
	No chemical safety assessment has been carried out for this substance/mixture, or its components, respectively.
<b>SECTION 16: Other information</b>	
	<p>Relevant H-phrases</p> <p>H302 Harmful if swallowed.</p> <p>H315 May cause an allergic skin reaction.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H330 Fatal if inhaled.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or difficulty breathing if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H412 Harmful to aquatic organisms, with long-lasting effects.</p> <p>Acute Tox.: Acute toxicity</p>

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BCF: Bioconcentration Factor CAS

number: Register number Chemical Abstracts Service CLP: Classification, Labelling and Packaging Regulation DNEL: Derived No Effects EC: European Commission EC50: Effective concentration 50% EC number:

EINECS and ELINCS numbers

EINECS: European List of Substances on the Market (EU) ELINCS: European List of Notified

Substances LC50: Concentration corresponding to a mortality rate of 50%

LD50: Dose corresponding to a mortality rate of 50% Ig: body weight LOAEC: Minimum

concentration for observable adverse effect NOAEC: No adverse effect

concentration NOEC: No adverse effect concentration PBT: Persistent,

bioaccumulative and

toxic PNEC: Predicted No Effect concentration REACH: Registration, Evaluation,

Authorisation and Restriction of Chemicals and Mixtures Skin Sens.: Skin sensitization

STOT SE: Specific target organ toxicity STOT eenm.

STOT RE: Specific target organ toxicity upon repeated exposure STOT reh.

STP: Wastewater treatment plants Tox.: Toxicity

vPvB: Very

persistent and very bioaccumulative requires appropriate safety measures (see also this Safety Data Sheet). Therefore, these products may only be used in industrial or professional applications.

They are not suitable for use in DIY applications.

Abbreviations and acronyms: ADN

Accord européen relative to the international transport of merchandise dangers by the interior navigation ADR Accord européen relative to the international

transport of merchandise dangerous by the route ANSI American National Standards Institute

ASTM American Society of

Testing and Materials (US)

ATE Acute Toxic Estimate AwSv

Verordnung über Anlagen zugang mit wassergefährdenden Substances BCF Bioconcentration Factor

CAS Chemical Abstract Service CLP

Regulation on Classification, Labeling

and Packaging of Substances and Mixtures CMR Cancerogenic Mutagenic Reprotoxic DIN Deutsches Institut für

Normung DNEL Derived No-Effect Level EC... Effect

Concentration ... % EWC European Waste

Catalog IATA International Air Transport

Association IBC Intermediate Bulk

Container ICAO International Civil Aviation

Organization IMDG International Maritime Dangerous

Goods IMO International Maritime

Organization ISO International Organization for

Standardization IUPAC International Union of Pure and

Applied Chemistry LOAEL Lowest Observable

Adverse Effect Level LC... Lethal Concentration, ...%

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LD... Lethal Dose, ...%

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEL No Observed Adverse Effect Level

NOEL/NOEC No Observed Effect Level/Concentration

OECD Organization for Economic Co-operation and Development

PBT persistent, bioaccumulative, toxic

PNEC Predicted No-Effect Concentration

REACH Registration, Evaluation, Authorization and Restriction of Chemicals

RID Règlement concernant le transport International ferroviaire de  
merchandises Dangereuses

STOT Specific Target Organ Toxicity

TRGS Technical Regulations for Gefahrstoffe

vPvB very Persistent, very Bioaccumulative

WGK Wassergefährdungsklasse

Other information: #

REACH Declaration: All information is based on current knowledge. Consistency of the data in this Safety Data Sheet with the data stated in the Chemical Safety Report has been considered to the extent that these were available at the time of compilation (see Version number and Revision date).

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