

# 9750 Primer PAS B component Safety Data Sheet

pursuant to Regulation (EC) No 453/2010

Publication date: 08/10/2024

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 9750 Primer PAS B component Product group: Topseal			
1,2	Relevant identified use Main usage category Industrial/Professional usage specification  Use of the substance or the mixture; Forms of use that are advised against	Industrial use For professional use only Flooring  No additional information available		
1.3	Dutch Resin Group Gladsaxe 19  7327 JZ 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	Emergency number	address
	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			
	Classification of the substance or mixture according to Regulation (EC) No 1272/2008 [CLP]: Skin irritation: Category 2 (H315) Eye irritation: Category 2 (H319) Respiratory sensitization: Category 1 (H334) Skin sensitization: Category 1 (H317)			
2.2	Labeling elements			

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		<p>Symbol</p>  <p>Signal word (CLP): warning</p> <p>H332 - Harmful if inhaled.  H317 - May cause an allergic skin reaction.  H335 - May cause respiratory irritation.  P260 - dust, smoke, gas, mist, spray, vapor - do not breathe.  P285 - Wear suitable respiratory protection in case of inadequate ventilation.  P280 - Wear protective gloves, protective clothing, face protection, eye protection.  P304+P340 - IF INHALATION: move the victim to fresh air and rest in a position that facilitates breathing.  P302+P352 - IF IN CONTACT WITH SKIN: Wash with plenty of water and soap.  P333+P313 - If skin irritation or rash occurs: Consult a doctor.  P403+P233 - Store in a well-ventilated place.  Store in a tightly closed container.  As of August 24, 2023, appropriate training must be completed for industrial or professional use.</p>									
	2.3 Other hazards										
		No data available									
<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>% Classification in accordance with Regulation (EC) No 1272/2008 [CLP Regulation (EU) 2016/117]</th> </tr> </thead> <tbody> <tr> <td>Hexamethylene diisocyanate oligomers, isocyanurate</td> <td>CAS No: 28182-81-2 EC No: 931-274-8 REACH No.: 01-2119485796-17-0002</td> <td>&lt;100 H332 Resp sens4 H317 Skin sens 1 H335 STOT SE3</td> </tr> <tr> <td>hexamethylene-1,6-diisocyanate (Dangerous impurities)</td> <td>(CAS No.) 822-06-0 (EC No.) 212-485-8 (EU Identification No.) 615-011-00-1 (REACH No.) 01-2119457571-37-0001</td> <td>&lt; 0.5 H320 Acute Tox. 4 H330 Acute Tox. 1 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H334 Resp. Sens. 1 H317 Skin Sens. 1 H335 STOT SE 3</td> </tr> </tbody> </table>	name	product identification	% Classification in accordance with Regulation (EC) No 1272/2008 [CLP Regulation (EU) 2016/117]	Hexamethylene diisocyanate oligomers, isocyanurate	CAS No: 28182-81-2 EC No: 931-274-8 REACH No.: 01-2119485796-17-0002	<100 H332 Resp sens4 H317 Skin sens 1 H335 STOT SE3	hexamethylene-1,6-diisocyanate (Dangerous impurities)	(CAS No.) 822-06-0 (EC No.) 212-485-8 (EU Identification No.) 615-011-00-1 (REACH No.) 01-2119457571-37-0001	< 0.5 H320 Acute Tox. 4 H330 Acute Tox. 1 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H334 Resp. Sens. 1 H317 Skin Sens. 1 H335 STOT SE 3
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		Full text of the risk phrases: see Chapter 16									
		Since the polymer or polymers including contaminants are exempt from the registration requirement under Article 2(9) of the REACH Directive (EC) No 1907/2006, no exposure scenarios are available. The necessary information on operational conditions and risk management measures are described in Chapter 8 of this SDS.									
		Candidate list of substances - very careful for authorisation This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57)									
<b>SECTION 4 First aid measures</b>											
	4.1	Description of the first aid measures									

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		<p>General First Aid: Never administer anything by mouth to an unconscious person. If you feel unwell, consult a doctor (show them this label if possible). In case of contact with the skin:</p> <p>Inhalation: Move the victim to fresh air and ensure they rest. Consult a doctor immediately.</p> <p>Skin contact: Wash with plenty of water and soap. Remove contaminated clothing. Eye contact: Rinse gently with water for several minutes. Remove contact lenses if possible; continue rinsing. Swallowed: Rinse mouth and drink plenty of water. Consult a doctor immediately. Main acute and delayed symptoms and effects: Irritation of the airways, coughing, shortness of breath, skin and eye irritation, allergic reactions. Indication of the required immediate medical care and special treatment: Symptomatic treatment.</p>
4.2		Main acute and delayed effects symptoms
		Notes for the doctor: First aid, disinfection, symptomatic treatment.
4.3		Indication of the required immediate medical care and special treatment
		No data available
<b>SECTION 5: Firefighting measures</b>		
5.1		Extinguishing equipment
		Suitable extinguishing agents: Foam. AFFF. Water mist. Unsuitable extinguishing agents: strong water jet. Special hazards caused by the
5.2		substance or mixture.
		During a fire, carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapors, and traces of hydrogen cyanide (prussic acid) are produced. Avoid inhaling smoke during fire and/or explosion.
5.3		Advice for firefighters
		<p>Fire precautions: No open flames, no sparks, and no smoking. Firefighting instructions: Do not enter the fire zone without suitable safety equipment, including respiratory protection. Protection during firefighting: Cool the exposed vessels with a water spray or mist.</p> <p>Additional information: Exercise extreme caution when fighting a chemical fire. Collect the contaminated extinguishing water used for the fire separately. Do not discharge into the sewer. Move the undamaged containers out of the danger zone, if this can be done safely.</p>
<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
		Wear personal protective equipment. Wear respiratory equipment when exposed to vapors/dust/aerosols. Ensure good ventilation. Use suitable respiratory protective equipment. Consult the protective measures as set out in points 7 and 8.
6.2		For persons other than the emergency services
		<p>Protective equipment: Equip cleaning staff with appropriate protection. Emergency procedures: Keep spectators at a distance.</p>
6.3		For the emergency services

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		No additional information available
6.4		Environmental precautions
		Prevent penetration into the soil/subsoil. Prevent runoff into surface water or the sewer. Store the contaminated rinse water and dispose of it. In the event of a gas leak or infiltration into watercourses, soil, or sewers, notify the responsible authorities. Suitable material for collection: absorbent material, organic matter, sand.
6.5		Methods and material for containment and cleaning up
		For containment: Use suitable waste containers. Cleaning methods: Clean up spilled product as soon as possible using an absorbent product. Rinse with plenty of water Reference
6.6		to other sections
		Regarding waste disposal after cleaning, see section 13. See section 8 regarding the use of personal protective equipment.
SECTION 7: Handling and storage		
7.1		Precautions for the safe handling of the substance or mixture
		Avoid contact with skin and eyes, inhalation of vapors and mist. Use the local ventilation system. Do not use empty containers before they have been cleaned. Before proceeding with the move, check that there are no residues of incompatible material present in the containers. Remove contaminated clothing and protective equipment before entering areas where eating takes place. Do not eat or drink during work. Reference is also made to paragraph 8 for the recommended protective equipment. Conditions for safe storage, including incompatible products
7.2		
		Keep away from food, drink, and feed. Incompatible substances: None in particular. See also paragraph 10 below. Instructions for the rooms. Well-ventilated rooms.
7.3		Specific end-use
		A-component coating
SECTION 8: Exposure control measures/personal protection		
8.1		Control parameters
		TGG-8u (OEL TWA) 0.04 mg/m <sup>3</sup> TGG-8u (OEL TWA) 0.005 ppm TGG-15min (OEL STEL) 0.14 mg/m <sup>3</sup> TGG-15min (OEL STEL) 0.02 ppm
8.2		DNEL and PNEC
		hexamethylene-1,6-diisocyanate (822-06-0) DNEL/DMEL (Employees) Acute - local effects, inhalation 0.07 mg/m <sup>3</sup> Long-lasting - local effects, inhalation 0.035 mg/m <sup>3</sup> PNEC (Water) PNEC aqua (soft water) > 77.4 µg/l (Scenedesmus subspicatus) PNEC aqua (seawater) > 7.74 µg/L (Scenedesmus subspicatus)

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		<p>PNEC aqua (intermittent, freshwater) &gt; 774 µg/L (Scenedesmus subspicatus)</p> <p>PNEC (Sediments)</p> <p>PNEC sediment (fresh water) &gt; 0.01334 mg/kg dry weight (equilibrium partitioning)</p> <p>PNEC sediment (seawater) &gt; 0.001334 mg/kg dry weight (equilibrium partitioning)</p> <p>PNEC (Soil)</p> <p>PNEC soil &gt; 0.0026 mg/kg dry weight (equilibrium partitioning)</p> <p>PNEC (STP)</p> <p>PNEC water treatment plant 8.42 mg/l (OECD 209)</p> <p>Hexamethylene diisocyanate oligomers, isocyanurate (28182-81-2)</p> <p>DNEL/DMEL (Employees)</p> <p>Acute - local effects, inhalation 1 mg/m<sup>3</sup></p> <p>Long-lasting - local effects, inhalation 0.5 mg/m<sup>3</sup></p> <p>PNEC (Water)</p> <p>PNEC aqua (soft water) 127 µg/L (Daphnia magna)</p> <p>PNEC aqua (seawater) 12.7 µg/L (Daphnia magna)</p> <p>PNEC aqua (intermittent, freshwater) 1270 µg/L (Daphnia magna)</p> <p>PNEC (Sediments)</p> <p>PNEC sediment (fresh water) 266.7 g/kg (equilibrium partitioning)</p> <p>PNEC (Soil)</p> <p>PNEC soil 53.2 g/kg (equilibrium partitioning)</p> <p>PNEC (STP)</p> <p>PNEC water treatment plant 38.28 mg/l (OECD 209)</p>
8.3	Measures to control exposure	
		<p>Respiratory protection Nose and mouth protection is required in case of insufficient ventilation at the workplace and during injection molding. A fresh-air mask or, for short-term work, a combination filter A2-P2 is recommended. Further recommendations regarding respiratory protection can be found in the individual exposure scenarios in the appendix. Handling of this product is not recommended 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 <math>\geq 0.5</math> mm; Breakthrough time <math>\geq 480</math> min. Fluororubber - FKM: thickness <math>\geq 0.4</math> mm; Breakthrough time <math>\geq 480</math> min. layered glove - PE/EVAL/PE; Breakthrough time <math>\geq 480</math> min. Recommendation: remove contaminated gloves. Eye protection Wear eye/face protection. Skin and body protection Wear suitable protective clothing.</p>
<b>SECTION 9: Physical and chemical properties</b>		
9.1	Information about basic physical and chemical properties	
		<p>Appearance: liquid Color: clear</p> <p>Odor: almost odorless</p> <p>Odor threshold: not determined pH: not determined</p> <p>Pouring point: not determined</p> <p>Boiling point/boiling range: N/A, decomposition DIN</p> <p>53171 Flash point: approx. 185 °C DIN</p> <p>EN 22719 Evaporation rate: not determined</p> <p>Flammability (solid, gas): Not applicable</p> <p>Fire number: Not applicable</p>

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		<p>Vapor pressure: not determined  Vapor pressure of components:  Vapor tightness: not determined  Density: not determined  Miscibility with water: not miscible at 15 °C  Surface tension: not determined  Partition coefficient (n-octanol/water): not determined  Autoignition temperature: Not applicable  Ignition temperature: approximately 445 °C DIN 51794  Decomposition temperature: approximately 181 °C  Viscosity, dynamic: not determined  Explosion properties: not determined  Dust explosion class: Not applicable  Oxidizing properties: not determined</p>
	9.2	Other information
		no.
<b>SECTION 10: Stability and reactivity</b>		
	10.1	Reactivity
		Reacts with water, alcohols, amines.
	10.2	Chemical stability:
		Stable under recommended storage conditions.
	10.3	Possible dangerous reactions
		Exothermic reaction with amines and alcohols; gradual CO <sub>2</sub> evolution with water, pressure increase in sealed containers; risk of bursting.
	10.4	Conditions to be avoided
		Extremely high or low temperatures. Protect from direct sunlight.
	10.5	Chemically interacting materials
		Water, alcohols, amines.
	10.6	Dangerous decomposition products smoke.
		No hazardous decomposition products with professional storage and handling.
<b>SECTION 11: Toxicological information</b>		
	11.1	Information about toxicological effects
		<p>Acute toxicity (oral) : Not classified :  Acute toxicity (dermal) Not classified :  Acute toxicity (inhalation) Harmful by inhalation.</p> <p>hexamethylene-1,6-diisocyanate (822-06-0)  LD50 oral rat 959 mg/kg body weight (OECD 401) &gt; 7000 mg/kg body weight (OECD 402)  LD50 dermal rat 402)  LC50 Inhalation - Rat 0.124 mg/l/4h (OECD 403)</p> <p>Hexamethylene diisocyanate oligomers, isocyanurate (28182-81-2)  LD50 oral rat &gt; 2500 mg/kg (OECD 423 (female))  LD50 dermal rat &gt; 2000 mg/kg (OECD 402)  LD50 dermal rabbit &gt; 2000 mg/kg  LC50 Inhalation - Rat 0.39 mg/l/4h (OECD 403 (female))</p>

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		<p>Skin corrosion/irritation : Not classified pH: Not applicable Additional information : (OECD 404 method) rabbit Serious eye damage/eye irritation : Not</p> <p>classified pH: Not applicable Additional information : (OECD 405 method) rabbit Respiratory/skin sensitization : May cause an allergic skin reaction.</p> <p>Additional information : (OECD 429 method) mouse Not considered</p> <p>sensitizing by inhalation Guinea pig Germ cell mutagenicity : Not classified Carcinogenicity : Not classified hexamethylene-1,6-diisocyanate (822-06-0)</p> <p>NOAEC, Chronic, Inhalation, rat 0.164 ppm ((OECD 453 method))</p> <p>Reproductive toxicity: Not classified Single exposure STOT: May cause respiratory irritation. hexamethylene-1,6-diisocyanate (822-06-0)</p> <p>SOT upon single exposure: May cause respiratory irritation.</p> <p>Hexamethylene diisocyanate oligomers, isocyanurate (28182-81-2) NOAEC (inhalation, rat, vapour) 3 mg/m<sup>3</sup> (6h / OECD TG 403) SOT upon single exposure: May cause respiratory irritation.</p> <p>SOT upon repeated exposure: Not classified</p> <p>hexamethylene-1,6-diisocyanate (822-06-0) LOAEC (inhalation, rat, vapor, 90 days) 0.01 ppm (OECD 413) NOAEC, Chronic, Inhalation, rat 0.005 ppm (2 years, (OECD 453 method))</p> <p>Hexamethylene diisocyanate oligomers, isocyanurate (28182-81-2) NOAEC (inhalation, rat, vapor, 90 days) 3.3 mg/l/6 hours/day (OECD 413)</p> <p>Hazard by inhalation: Not classified</p>
	11.2	Information about other hazards
		No additional information available
<b>SECTION 12: Ecological information</b>		
	12.1	Toxicity:
		<p>Ecology - water: This product causes no long-term adverse effects on the tested aquatic organisms.</p> <p>Hazard to the aquatic environment, (acute) short term: Not classified Hazard to the aquatic environment, (chronic) long term: Not classified</p> <p>hexamethylene-1,6-diisocyanate (822-06-0) LC50 - Fish [1] 22 mg/l (96 h-static/ Brachydanio rerio) EC50 - Other aquatic organisms [1] 842 mg/l (3h-static / Bacteria / OECD 209) ErC50 algae &gt; 77.4 mg/l Desmodesmus subspicatus LOEC (chronic) 12.6 mg/l (72h / Desmodesmus subspicatus/ EU method C.3) 11.7 NOEC (chronic) mg/l ( 72 h /Desmodesmus subspicatus/ EU method C.3) ÿ 89.1 mg/l EC0, daphnia (48 hours, EU C.2) ÿ 82.8 mg/l LC0, Fish (96 hours, EU C.1, (Danio rerio)) 842 mg/l (3 EC50, Bacteria hours, (OECD 209 method))</p>

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		<p>Hexamethylene diisocyanate oligomers, isocyanurate (28182-81-2)  LC50 - Fish [1] 8.9 mg/l (Brachydanio rerio )  EC50 - Crustaceans [1] 127 mg/l (48 h static / EU C.2)  EC50 - Other aquatic organisms [1] &gt; 1000 mg/l (72h / Scenedesmus subspicatus / DIN 38412)</p> <p>ErC50 algae &gt; 1000 mg/l (0-72 h static / Desmodesmus subspicatus / EU C.3)  EC50, ACTIVE SLUDGE 3828 mg/l (3 hours, (OECD 209 method))</p>
12.2	Persistence and degradability	
		<p>Persistence and degradability Not easily biodegradable.</p> <p>hexamethylene-1,6-diisocyanate (822-06-0)  Biochemical oxygen demand (BOD) 42% (Bacteria / EU C.4-D)</p> <p>Hexamethylene diisocyanate oligomers, isocyanurate (28182-81-2)  Persistence and degradability NOT biodegradable.  Biochemical oxygen demand (BOD) 1% (bacterium / EU C.4-E)</p>
12.3	Bioaccumulation:	
		The substance hydrolyzes rapidly in water. An increase in aquatic organisms is not to be expected.
12.4	Mobility in the soil	
		No information is available
12.5	Results of PBT and zPzB assessment	
		(9016-87-9) This substance/mixture does not meet the PBT criteria of the REACH Regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of the REACH Regulation, Annex XIII
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.  Based on current experience, polyurea is inert and non-biodegradable.</p>
<b>SECTION 13 Disposal instructions</b>		
13.1	Waste processing methods	
		<p>Recommendations for the disposal of products/packaging:  Dispose of safely in accordance with local/national regulations.  Additional information: Empty packaging will be recycled, reused, or disposed of in accordance with local regulations.  Ecology - waste: Prevent discharge into the environment.  EURAL code: 08 05 01* - isocyanate waste</p>
<b>SECTION 14: Information regarding transport</b>		
		Land transport (ADR / RID / GGVSEB)
14.1	UN number	
		Not regulated
14.2	Proper shipping name in accordance with the UN Model Regulations:	
		Not regulated
14.3	Transport hazard class(es):	

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		Not regulated
	14.4 Packaging group:	
		Not regulated
	14.5 Environmental hazards:	
		Not regulated
	14.6 Special precautions for the user:	
		Not hazardous transport goods. Protect from moisture. Heat sensitive from +50 °C. Keep separate from food and beverages.
	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>		
	15.1	Specific safety, health and environmental regulations and legislation for the substance or mixture Directive
		2012/18/EU on major accident control involving hazardous substances. Not applicable Water pollution class (Germany) 1 mildly water polluting (according to Annex 4 of the VWS) All existing national regulations for the handling of isocyanates must be observed.
		Other regulations of the European Commission for the Association of Paint and Printing Ink Manufacturers - CEPE - The following information is provided for dyes containing isocyanate: Ready-to-use dyes containing isocyanates can cause irritation of the mucous membranes – in particular, irritate the respiratory tract and trigger hypersensitivity reactions. There is a risk of sensitization upon inhalation of vapors or spray mist. When handling isocyanate-containing dyes, all measures applicable to solvent-based dyes must be carefully observed. In particular, spray mists and vapors must not be inhaled. Allergic, asthmatic, and persons susceptible to respiratory diseases must not perform work with isocyanate-containing dyes.
	15.2	Chemical safety assessment
		Chemical safety assessment has not been performed.
<b>SECTION 16: Other information</b>		
		Indication of changes: Revision: *. Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on the 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.
		Full text of hazard statements (H-phrases) according to sections 2, 3 and 10 H315 - Causes skin irritation H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H319 - Causes serious eye irritation H330 - Fatal if inhaled H332 - Harmful if inhaled. H334 - May cause allergic or asthma symptoms if inhaled or cause breathing difficulties H335 - May cause respiratory irritation

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	<p>The product is primarily used as two-component coating systems. Handling coating materials containing reactive polyisocyanates and monomeric HDI residues requires appropriate safety measures (see also this Safety Data Sheet).</p> <p>These products may therefore only be used in industrial or professional applications. They are not suitable for use in DIY applications. Changes made since the publication of the previous edition are marked in the margin.</p> <p>This edition replaces all previous versions. Further information</p> <p>DISCLAIMER OF LIABILITY The information in this sheet was obtained from sources that are, to the best of our knowledge, reliable. However, the information was provided without any guarantee—directly implied—regarding its accuracy. The conditions or methods of handling, storage, use, or finishing of the product are beyond our control and influence and may also be beyond our knowledge. For these and other reasons, we accept no liability whatsoever, while liability for losses, damage, or expenses that may arise in any way from the handling, storage, use, or finishing and disposal of the product is expressly disclaimed.</p>
	<p>Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</p> <p>ICAO: International Civil Aviation Organization ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labeling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox.</p> <p>4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitization – Category 1 Repr. 2: Reproductive toxicity – Category 2 STOT SE 3:</p>