

 QUICK SEAL PLUS 310 ML Code: 5002-001045	
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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	<u>PRODUCT IDENTIFIER:</u> UFI: 6NVR-DRPR-G505-MA54	QUICK SEAL PLUS 310 ML Code: 5002-001045
1.2	<u>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> [X] Industrial [X] Professional [] Consumers Adhesive. <u>Sectors of use:</u> Professional uses (SU22). <u>Uses advised against:</u> This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Contains: Contains methylenediphenyl diisocyanate (MDI): Shall not be placed on the market after 27.12.2010, as constituent of mixtures in concentrations equal to or greater than 0,1% by weight MDI for supply to the general public, unless suppliers ensure before placing on the market that the packaging: a) Contains protective gloves which comply with the requirements of Regulation (EU) No. 2016/425, and b) Is marked visibly, legibly and indelibly as follows: '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, and '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'. 2. By way of derogation, paragraph 1a) shall not apply to hot melt adhesives. The restrictions do not apply to storage, keeping, treatment, filling into containers, or transfer from one container to another of the substances for export.	
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> CARSISTEMA PORTUGAL REPRESENTAÇÕES, S.A. Ribeira de Eiras, Ad,mia - 3020-326 Coimbra (Portugal) Phone: +351 239 433720 <u>E-mail address of the person responsible for the Safety Data Sheet:</u> info@carrepairsystem.eu	
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u> +351 239 433720 (L-V 9-13 / 14-18 h.) (working hours)	

SECTION 2 : HAZARDS IDENTIFICATION

2.1	<u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture. <u>Classification in accordance with Regulation (EU) No. 1272/2008~2020/217 (CLP):</u> DANGER: Resp. Sens. 1:H334					
	<u>Danger class</u>	<u>Classification of the mixture</u>	<u>Cat.</u>	<u>Routes of exposure</u>	<u>Target organs</u>	<u>Effects</u>
	<u>Physicochemical:</u> Not classified	Resp. Sens. 1:H334	c)	Cat.1	Inhalation	Respiratory tract
	<u>Human health:</u> 					Allergy, Asthma
	<u>Environment:</u> Not classified					
	Full text of hazard statements mentioned is indicated in section 16. Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.					
2.2	<u>LABEL ELEMENTS:</u>  <u>Hazard statements:</u> H334 <u>Precautionary statements:</u> P102 P284a P304+P341 P342+P311 This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2020/217 (CLP) May cause allergy or asthma symptoms or breathing difficulties if inhaled. Keep out of reach of children. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.					

	QUICK SEAL PLUS 310 ML Code: 5002-001045	
	<p>P501b Dispose of contents/container to hazardous or special waste collection point.</p> <p><u>Supplementary statements:</u></p> <p>EUH204 Contains isocyanates. May produce an allergic reaction.</p> <p>EUH208 Contains hDI oligomers, isocyanurate. May produce an allergic reaction.</p> <p>EUC056a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.</p> <p>EUC056b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</p> <p>EUC056c 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.</p> <p><u>Substances that contribute to classification:</u></p> <p>Diphenylmethane diisocyanate oligomer 4,4'-methylenediphenyl diisocyanate</p>	
2.3	<p><u>OTHER HAZARDS:</u></p> <p>Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:</p> <p><u>Other physicochemical hazards:</u> No other relevant adverse effects are known.</p> <p><u>Other adverse human health effects:</u> People with hypersensitive respiratory tract (by instance, asthma or chronic bronchitis) should not handle this product. The symptoms in the respiratory tract may appear even last few hours of excessive exposure. The major dangers for respiratory ways are the dust, vapours or aerosols.</p> <p><u>Other negative environmental effects:</u> Does not contain substances that fulfil the PBT/vPvB criteria.</p>	
SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS		
3.1	<p><u>SUBSTANCES:</u></p> <p>Not applicable (mixture).</p>	
3.2	<p><u>MIXTURES:</u></p> <p>This product is a mixture.</p> <p><u>Chemical description:</u></p> <p>Polyurethane adhesive.</p> <p><u>INGREDIENTS:</u></p>	
	<p>< 1 %  Diphenylmethane diisocyanate oligomer CAS: 25686-28-6 , EC: 500-040-3 REACH: 01-21 19457013-49 Index No. 615-005-00-9 CLP: Danger: Acute Tox. (inh.) 4:H332 Skin Irrit. 2:H315 Eye Irrit. 2:H319 < REACH / ATP01 Resp. Sens. 1:H334 Skin Sens. 1:H317 Carc. 2:H351 STOT SE (irrit.) 3:H335 STOT RE 2:H373iR</p>	
	<p>< 1 %  HDI oligomers, isocyanurate (CAS: 28182-81-2) , List No. 931-274-8 REACH: 01-21 19485796-17 Autoclassified CLP: Warning: Acute Tox. (inh.) 4:H332 Skin Sens. 1:H317 STOT SE (irrit.) < REACH 3:H335</p>	
	<p>< 1 %  4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 , EC: 202-966-0 REACH: 01-21 19457014-47 Index No. 615-005-00-9 CLP: Danger: Acute Tox. (inh.) 4:H332 Skin Irrit. 2:H315 Eye Irrit. 2:H319 < REACH / ATP01 Resp. Sens. 1:H334 Skin Sens. 1:H317 Carc. 2:H351 STOT SE (irrit.) 3:H335 STOT RE 2:H373i</p>	
	<p><u>Impurities:</u></p> <p>Does not contain other components or impurities which will influence the classification of the product.</p>	
	<p><u>Stabilizers:</u></p> <p>None</p>	
	<p><u>Reference to other sections:</u></p> <p>For more information on hazardous ingredients, see sections 8, 11, 12 and 16.</p>	
	<p><u>SUBSTANCES OF VERY HIGH CONCERN (SVHC):</u></p> <p>List updated by ECHA on 08/07/2021.</p> <p><u>Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:</u></p> <p>None</p> <p><u>Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:</u></p> <p>None</p>	
	<p><u>PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:</u></p> <p>Does not contain substances that fulfil the PBT/vPvB criteria.</p>	



QUICK SEAL PLUS 310 ML
Code: 5002-001045

**SECTION 4 : FIRST AID MEASURES****4.1 DESCRIPTION OF FIRST-AID MEASURES:**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u> 	Inhalation produces irritation to mucus, coughing and breathlessness.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
<u>Skin:</u>	It is not expected that symptoms will occur under normal conditions of use.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.
<u>Eyes:</u>	It is not expected that symptoms will occur under normal conditions of use.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.
<u>Ingestion:</u>	If swallowed, may cause gastrointestinal disturbances.	If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

The main symptoms and effects are indicated in sections 4.1 and 11.1

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.

Antidotes and contraindications: Specific antidote not known.

SECTION 5 : FIRE-FIGHTING MEASURES**5.1 EXTINGUISHING MEDIA:**

In case of fire in the surroundings, all extinguishing agents are allowed.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

As consequence of combustion or thermal decomposition, hazardous products may be produced. Exposure to combustion or decomposition products may be a hazard to health.

5.3 ADVICE FOR FIREFIGHTERS:

Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.

Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

Avoid direct contact with this product.

6.2 ENVIRONMENTAL PRECAUTIONS:

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises: water, ethanol or isopropanol and concentrated ammonia solution (d=0,880) = 45/50/5 parts by volume. Another possible (non-flammable) decontaminant is made up of water and sodium carbonate = 95/5 parts by weight. Add the same decontaminant to any residues and allow to stand for several days in an un-sealed container until no further reaction occurs. Avoid use of solvents. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS:

For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For waste disposal, follow the recommendations in section 13.



QUICK SEAL PLUS 310 ML
Code: 5002-001045

**SECTION 7 : HANDLING AND STORAGE**

- 7.1 **PRECAUTIONS FOR SAFE HANDLING:**
Comply with the existing legislation on health and safety at work.
General recommendations:
Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 2014/34/EU concerning equipment and protective systems intended for use in potentially explosive atmospheres. Also they are not applicable the provisions of the ITC MIE BT-29 on the detailed requirements for electrical installations in locals with risk of fire or explosion.
Recommendations for the prevention of toxicological risks:
People with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which isocyanate containing products are used. Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2 **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**
Forbid the entry to unauthorized persons. Keep out of reach of children. Keep away from sources of heat. Precautions should be taken to minimise exposure to atmospheric humidity or water, as carbon dioxide may be formed which, in closed containers can result in pressurisation. Care should be taken when re-opening partly used containers. Due to the sensitivity to humidity of the isocyanates, this product should be kept in the original container, or under pressure of dried nitrogen, for example. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.
Class of storage : According to current legislation.
Maximum storage period : 6. months
Temperature interval : min: 5. °C, max: 40. °C (recommended).
Incompatible materials:
Keep away from reducing agents, oxidizing agents, acids, alkalis. Clean the application equipment with a compatible solvent. Never leave the equipment filled with the cleaning solvent for prolonged periods, especially when used for cleaning solvents recovered which may contain moisture or alcohols, to prevent the product from hardening in the equipment, causing seals on the hoses or guns.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 2012/18/EU:
Not applicable (the classification criteria are not met).
- 7.3 **SPECIFIC END USES:**
For the use of this product particular recommendations apart from that already indicated are not available.



QUICK SEAL PLUS 310 ML
Code: 5002-001045

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2019	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m ³	ppm	mg/m ³	
Diphenylmethane diisocyanate oligomer	1988	0.005	0.052	-	-	
4,4'-methylenedi phenyl diisocyanate	1988	0.005	0.052	-	-	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from an occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers:

- Systemic effects, acute and chronic:

	DNEL Inhalation mg/m ³		DNEL Cutaneous mg/kg bw/d		DNEL Oral mg/kg bw/d	
Diphenylmethane diisocyanate oligomer	0.100 (a)	0.0500 (c)	50.0 (a)	- (c)	- (a)	- (c)
HDI oligomers, isocyanurate	s/r (a)	s/r (c)	s/r (a)	s/r (c)	- (a)	- (c)
4,4'-methylenedi phenyl diisocyanate	0.100 (a)	0.0500 (c)	50.0 (a)	- (c)	- (a)	- (c)

Derived no-effect level, workers:

- Local effects, acute and chronic:

	DNEL Inhalation mg/m ³		DNEL Cutaneous mg/cm ²		DNEL Eyes mg/cm ²	
Diphenylmethane diisocyanate oligomer	0.100 (a)	0.0500 (c)	28.7 (a)	- (c)	- (a)	- (c)
HDI oligomers, isocyanurate	1.00 (a)	0.500 (c)	a/r (a)	a/r (c)	s/r (a)	- (c)
4,4'-methylenedi phenyl diisocyanate	0.100 (a)	0.0500 (c)	28.7 (a)	- (c)	m/r (a)	- (c)

Derived no-effect level, general population:

Not applicable (product for professional or industrial use).










(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.

(-) - DNEL not available (without data of registration REACH).

s/r - DNEL not derived (not identified hazard).

m/r - DNEL not derived (medium hazard).

a/r - DNEL not derived (high hazard).

 QUICK SEAL PLUS 310 ML Code: 5002-001045				
PREDICTED NO-EFFECT CONCENTRATION (PNEC):				
Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release: Diphenylmethane diisocyanate oligomer HDI oligomers, isocyanurate 4,4'-methylenediphenyl diisocyanate		PNEC Fresh water mg/l 1.00 0.127 1.00	PNEC Marine mg/l 0.100 0.0127 0.100	PNEC Intermittent mg/l 10.0 1.27 10.0
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Diphenylmethane diisocyanate oligomer HDI oligomers, isocyanurate 4,4'-methylenediphenyl diisocyanate		PNEC STP mg/l 1.00 38.3 1.00	PNEC Sediments mg/kg dw/d - 266700. -	PNEC Sediments mg/kg dw/d - 26670. -
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Diphenylmethane diisocyanate oligomer HDI oligomers, isocyanurate 4,4'-methylenediphenyl diisocyanate		PNEC Air mg/m ³ - s/r s/r	PNEC Soil mg/kg dw/d 1.00 53182. 1.00	PNEC Oral mg/kg dw/d n/b n/b n/b
(-) - PNEC not available (without data of registration REACH). s/r - PNEC not derived (not identified hazard). n/b - PNEC not derived (not bioaccumulative potential).				
8.2	EXPOSURE CONTROLS: ENGINEERING MEASURES:      Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.			
Protection of respiratory system: Avoid the inhalation of emanations. Protection of eyes and face: It is recommended to install water taps, sources or eyewash bottles with clean water close to the working area. Protection of hands and skin: It is recommended to install water taps or sources with clean water close to the working area.				
OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425: As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.				
Mask:  		In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. If the working area is insufficiently ventilated, or when operators, whether spraying or not, are inside the spraybooth, compressed air-fed respiratory protective equipment (EN137) is required. For short periods of work, you can consider the utilisation of a combination mask with gas and particle filters, type A2-P2 (EN14387/EN143).		
Safety goggles:		Advisable. Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.		
Face shield:		No.		
Gloves:		Advisable.		
Boots:		No.		
Apron:		No.		
Clothing:		Advisable.		
Thermal hazards: Not applicable (the product is handled at room temperature).				
ENVIRONMENTAL EXPOSURE CONTROLS: Avoid any spillage in the environment.				
Spills on the soil: Prevent contamination of soil.				
Spills in water: Do not allow to escape into drains, sewers or water courses. - Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.				
Emissions to the atmosphere: Not applicable.				

QUICK SEAL PLUS 310 ML
Code: 5002-001045**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**Appearance

- Physical state : Paste.
- Colour : Black.
- Odour : Characteristic.

pH-value

- pH : Not applicable

Change of state

- Melting point : Not applicable (mixture).
- Initial boiling point : > 100* °C at 760 mmHg

Density

- Vapour density : < 1 (lighter than air).
- Relative density : 1.28 at 20/4°C Relative water

Stability

- Decomposition temperature : Not applicable (thermally stable).

Viscosity:

- Kinematic viscosity : 535000. mm²/s at 40°C

Volatility:

- Evaporation rate : Not applicable
- Vapour pressure : 17.5* mmHg at 20°C
- Vapour pressure : 12.3* kPa at 50°C

Solubility(ies)

- Solubility in water : Not applicable
- Partition coefficient: n-octanol/water : Not applicable (inorganic product).

Flammability:

- Flash point : Ininflammable °C
- Lower/upper flammability or explosive limits : Not applicable
- Autoignition temperature : Not applicable (do not sustain combustion).

Explosive properties:

Not available.

Oxidizing properties:

Not classified as oxidizing product.

*Estimated values based on the substances composing the mixture.

9.2 OTHER INFORMATION:

- Heat of combustion : 39* Kcal/kg
- Solids : 2.7 % Weight

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY**10.1 REACTIVITY:**Corrosivity to metals: It is not corrosive to metals.Pyrophorical properties: It is not pyrophoric.**10.2 CHEMICAL STABILITY:**

Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:Possible dangerous reaction with water, reducing agents, oxidizing agents, acids, alkalis, amines, alcohols. Exothermic reaction with amines and alcohols. Reacts with water under evolution of CO₂.**10.4 CONDITIONS TO AVOID:**Heat: Keep away from sources of heat.Light: Not applicable.Air: The product is not affected by exposure to air, but should not be left the containers open.Pressure: Not relevant.Shock: The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.**10.5 INCOMPATIBLE MATERIALS:**

Keep away from reducing agents, oxidizing agents, acids, alkalis. Clean the application equipment with a compatible solvent. Never leave the equipment filled with the cleaning solvent for prolonged periods, especially when used for cleaning solvents recovered which may contain moisture or alcohols, to prevent the product from hardening in the equipment, causing seals on the hoses or guns.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

As consequence of thermal decomposition, hazardous products may be produced, including isocyanates.

QUICK SEAL PLUS 310 ML
Code: 5002-001045**SECTION 11 : TOXICOLOGICAL INFORMATION**

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/217 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**ACUTE TOXICITY:**Dose and lethal concentrations

for individual ingredients :

Diphenylmethane diisocyanate oligomer
HDI oligomers, isocyanurate
4,4'-methylenediiphenyl diisocyanateLD50 (OECD 401)
mg/kg bw oral> 10000. Rat
2500. Rat
9200. RatLD50 (OECD 402)
mg/kg bw cutaneous6200. Rabbit
> 2000. Rat
9400. RabbitLC50 (OECD 403)
mg/m³ 4h inhalation> 490. Rat
> 390. Rat
> 368. RatEstimates of acute toxicity (ATE)

for individual ingredients :

Diphenylmethane diisocyanate oligomer
HDI oligomers, isocyanurate
4,4'-methylenediiphenyl diisocyanateATE
mg/kg bw oral-
-
-ATE
mg/kg bw cutaneous-
-
-ATE
mg/m³ 4h inhalation11000.*
20000.*
11000.*

(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.

(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
<u>Inhalation:</u> Not classified	ATE > 20000 mg/m ³	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Skin:</u> Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
<u>Ingestion:</u> Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 1.2.6. 3.8.3.4.
<u>Skin corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.2.3.3.
<u>Serious eye damage/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).	GHS/CLP 3.3.3.3.
<u>Respiratory sensitisation:</u> 	Respiratory tract 	Cat.1	SENSITISING: May cause allergy symptoms if inhaled.	GHS/CLP 3.4.3.3.
<u>Skin sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.

QUICK SEAL PLUS 310 ML
Code: 5002-001045ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Aspiration hazard:</u> Not classified	-	-	Not applicable (paste).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:Carcinogenic effects: It is not considered as a carcinogenic product.Genotoxicity: It is not considered as a mutagenic product.Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.Effects via lactation: Not classified as a hazardous product for children breast-fed.DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:Routes of exposure: Not available.Short-term exposure:Long-term or repeated exposure: Not available.INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOKINETICS, METABOLISM AND DISTRIBUTION:Dermal absorption: Not available.Basic toxicokinetics: Not available.ADDITIONAL INFORMATION:

Not available.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/217 (CLP).

12.1 TOXICITY:

<u>Acute toxicity in aquatic environment for individual ingredients :</u> Diphenylmethane diisocyanate oligomer HDI oligomers, isocyanurate 4,4'-methylenediphenyl diisocyanate	<u>LC50 (OECD 203)</u> mg/l-96hours > 1000. Fishes > 100. Fishes > 1000. Fishes	<u>EC50 (OECD 202)</u> mg/l-48hours > 1000. Daphnia > 100. Daphnia > 1000. Daphnia	<u>EC50 (OECD 201)</u> mg/l-72hours 1640. Algae > 1000. Algae 1640. Algae
<u>No observed effect concentration</u> 4,4'-methylenediphenyl diisocyanate	<u>NOEC (OECD 210)</u> mg/l-28days	<u>NOEC (OECD 211)</u> mg/l-21 days > 10. Daphnia	<u>NOEC (OECD 201)</u> mg/l-72hours

Lowest observed effect concentration

Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
<u>Acute aquatic toxicity:</u> Not classified	-	Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.3.
<u>Chronic aquatic toxicity:</u> Not classified	-	Not classified as a dangerous product with chronic toxicity to a aquatic life with long lasting effects (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.

CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

12.2 PERSISTENCE AND DEGRADABILITY:

Not available.

12.3 BIOACCUMULATIVE POTENTIAL:

Not available.

<u>Bioaccumulation for individual ingredients :</u> Diphenylmethane diisocyanate oligomer HDI oligomers, isocyanurate 4,4'-methylenediphenyl diisocyanate	<u>log Pow</u>	<u>BCF</u> L/kg	<u>Potential</u>
	4.50	3.0 (calculated)	Not bioaccumulative.
	5.54	3.2 (calculated)	Not bioaccumulative.
	5.22	> 100. (calculated)	Low



QUICK SEAL PLUS 310 ML
Code: 5002-001045



12.4 MOBILITY IN SOIL:
Not available.

<u>Mobility</u> for individual ingredients :	<u>log₁₀ P_{oc}</u>	<u>Constant of Henry</u> Pa·m ³ /mol 20°C	<u>Potential</u>
Diphenylmethane diisocyanate oligomer	4.11	0.0000 (calculated)	Not bioaccumulative.
HDI oligomers, isocyanurate	5.15	0.023 (calculated)	Not bioaccumulative.
4,4'-methylenediphenyl diisocyanate	4.53		Low

12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:
Does not contain substances that fulfil the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:
Ozone depletion potential: Not applicable.
Photochemical ozone creation potential: Not available.
Earth global warming potential: Not available.
Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

- 13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014:
Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.
- Disposal of empty containers: Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:
Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.
- Procedures for neutralising or destroying the product:
Authorised landfill in accordance with local regulations.

SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830

Date of compilation: 16/04/2021 Page 11 / 12

QUICK SEAL PLUS 310 ML
Code: 5002-001045**SECTION 14 : TRANSPORT INFORMATION**

14.1	<u>UN NUMBER:</u> Not applicable
14.2	<u>UN PROPER SHIPPING NAME:</u> Not applicable
14.3	<u>TRANSPORT HAZARD CLASS(ES):</u> <u>Transport by road (ADR 2019) and</u> <u>Transport by rail (RID 2019):</u> Not regulated <u>Transport by sea (IMDG 39-18):</u> Not regulated <u>Transport by air (ICAO/IATA 2020):</u> Not regulated <u>Transport by inland waterways (ADN):</u> Not regulated
14.4	<u>PACKING GROUP:</u> Not regulated
14.5	<u>ENVIRONMENTAL HAZARDS:</u> Not applicable (not classified as hazardous for the environment).
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure.
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1	<u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this Safety Data Sheet. <u>Restrictions on manufacture, placing on market and use:</u> See section 1.2 <u>Tactile warning of danger:</u> Not applicable (product for professional or industrial use). <u>Child safety protection:</u> Not applicable (the classification criteria are not met). <u>OTHER REGULATIONS:</u> <u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2 <u>Other local legislations:</u> The receiver should verify the possible existence of local regulations applicable to the chemical.
15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> A chemical safety assessment has not been carried out for this mixture.



QUICK SEAL PLUS 310 ML
Code: 5002-001045

**SECTION 16 : OTHER INFORMATION**TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:Hazard statements according the Regulation (EU) No. 1272/2008~2020/217 (CLP), Annex III:

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. H373i May cause damage to organs through prolonged or repeated exposure if inhaled. H373iR May cause damage to respiratory system through prolonged or repeated exposure if inhaled.

Indications for preparations containing isocyanates:

Ready-to-use preparations containing isocyanates may have an irritant effect on mucous membranes -especially on breathing organs- and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling preparations containing isocyanates all precautions required for solvent-containing preparations must be followed. Vapour and spray mist in particular should not be inhaled. Allergics and asthmatics, as well as people prone to respiratory ailments should not work with isocyanate-containing preparations.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Agency : ECHA, <http://echa.europa.eu/>
- Access to European Union Law, <http://eur-lex.europa.eu/>
- Threshold Limit Values, (AGCIH, 2018).
- Riesgos y Patología por Isocianatos, G.Alomar (INSHT, DT.54.89, 1989).
- ISOPA directives for the safety in the load/unload, transport and storage of TDI and MDI. ISOPA publication number: PSC-0014-GUIDL-EN.

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- 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).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- SVHC: Substances of Very High Concern.
- PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Lethal dose, 50 percent.
- LC50: Lethal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangerous goods by road.
- RID: Regulations concerning the international transport of dangerous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:

Version: 2

Revision:

16/04/2021

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.