

***SAFETY DATA SHEET******According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH****Revision date: 11.09.2023***1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product details****Trade name:** Polyurethane car body sealant**Article number:** 37511, 37521, 37531, 37541**Product form:** Mixture**UFI Code:** UNPC-SMW7-T319-W76R**Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses:** Consumer (SU21), Professional (SU22) Adhesives, Sealants (PC.1)**Uses advised against:** No additional information available**Intended use:** Car refinishing product/Adhesives, sealants**Manufacturer/Supplier:**

Chamäleon GmbH

Rudolf-Diesel-Straße, 8a,

69115 Heidelberg

Germany

**Further information obtainable from:** Product Safety Department**Information in case of emergency:** + 49 70024112112 (CH)**2 – HAZARDS IDENTIFICATION****Classification of the substance or mixture**

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

**Hazard classification and indication: -****Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

**Hazard pictograms: -****Signal words: -****Hazard statements:**

EUH204 Contains isocyanates. May produce an allergic reaction.

### Precautionary statements:

P102 Keep out of reach of children.

### Other hazards:

On the basis of available data, the product does not contain any PBT or vPvB in percentage than 0,1%. The product does not contain substances with endocrine disrupting properties in concentration 0.1%.

## 3- COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

Mixture

Name	Product identifier	%	Classification (EC) 1272/2008 (CLP)
xylene	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (REACH No) 01-2119488216-32-xxxx	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 STA Dermal: 1100 mg/kg, , STA Inhalation vapours: 11 mg/l
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	(CAS-No.) 101-68-8 (EC-No.) 202-966-0 (REACH No) 01-2119457014-47-xxxx	< 0.1	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Skin Irrit. 2 H315: 5%, Eye Irrit. 2 H319: 5%, Resp. Sens. 1 H334: 0.1%, STOT SE 3 H335: 5% STA Inhalation mists/powders: 1.5 mg/l

Titanium dioxide	CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (REACH No) 01-2119489379-17-xxxx	< 2.5	Not classified
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	(CAS-No.) 2530-83-8 (EC-No.) 219-784-2 (REACH No) 01-2119513212-58-xxxx	< 0.5	Eye Dam. 1, H318 Aquatic Chronic 3, H412

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **4- FIRST - AID MEASURES**

##### **Description of first aid measures**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

**INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

##### **Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

##### **Indication of any immediate medical attention and special treatment needed**

Information not available

#### **5- FIRE - FIGHTING MEASURES**

##### **Extinguishing media**

**Suitable extinguishing media:** The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

**Unsuitable extinguishing equipment** None in particular.

##### **Special hazards arising from the substance or mixture**

**hazards caused by exposure in the event of fire** Do not breathe combustion products.

##### **Advice for firefighters**

##### **General information**

Use jets of water to cool the containers to prevent product decomposition and the development of substances

potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**Special protective equipment for fire-fighters**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**6- ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**Environmental precautions:** The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**Reference to other sections:**

Any information on personal protection and disposal is given in sections 8 and 13.

**7- HANDLING AND STORAGE****Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

**Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

**Specific end use(s)**

No additional information available

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Regulatory References:

BGR България НАРЕДБА 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.) CZE Česká Republika Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů DEU Deutschland Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 DNK Danmark Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019 ESP España Límites de exposición profesional para agentes químicos en España 2021 FRA France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS FIN Suomi HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25 GRC Ελλάδα Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ `` σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία``» HUN Magyarország Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelethe a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről HRV Hrvatska Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) ITA Italia Decreto Legislativo 9 Aprile 2008, n.81 NOR Norge Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255 NLD Nederland Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit PRT Portugal Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos POL Polska Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy ROU România Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 SWE Sverige Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1) SVK Slovensko NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane

zdravja zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov TUR Türkiye Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020) EU OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. TLV-ACGIH ACGIH 2022

TITANIUM DIOXIDE							
Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks	/
		mg/m3	ppm	mg/m3	ppm	Observations	
TLV	BGR	221	50	442	100	SKIN	
TLV	CZE	200	45.4	400	90.8	SKIN	
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
TLV	DNK	109	25			SKIN	E
VLA	ESP	221	50	442	100	SKIN	
VLEP	FRA	221	50	442	100	SKIN	
HTP	FIN	220	50	440	100	SKIN	
TLV	GRC	435	100	650	150	SKIN	
AK	HUN	221		442		SKIN	
GVI/KGVI	HRV	221	50	442	100	SKIN	
VLEP	ITA	221	50	442	100	SKIN	
TLV	NOR	108	25			SKIN	
TGG	NLD	210		442		SKIN	
VLE	PRT	221	50	442	100	SKIN	
NDS/NDSch	POL	100		200		SKIN	
TLV	ROU	221	50	442	100	SKIN	
NGV/KGV	SWE	221	50	442	100	SKIN	
NPGL	SVK	221	50	442	100	SKIN	
ESD	TUR	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100	SKIN	
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH			20				

TITANIUM DIOXIDE							
Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks	/
		mg/m3	ppm	mg/m3	ppm	Observations	
TLV	BGR	10				RESP	
TLV	DNK	6					Som Ti
VLA	ESP	10					
VLEP	FRA	10					

TLV	GRC		10				
GVI/KGVI	HRV	10				INHAL	
GVI/KGVI	HRV	4				RESP	
TLV	NOR	5					
NDS/NDSch	POL	10				INHAL	
TLV	ROU	10		15			
NGV/KGV	SWE	5					Totalda mm
NPEL	SVK	5					
WEL	GBR	10				INHAL	
WEL	GBR	4				RESP	
TLV-ACGIH		2.5				RESP	

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks Observations	/
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	0.05		0.1			
AGW	DEU	0.05		0.05 (C)		INHAL	C = 0,1 mg/m3
MAK	DEU	0.05		0.05 (C)		INHAL	C = 0,1 mg/m3
MAK	DEU	0.05		0.05		SKIN	C = 0,1 mg/m3
TLV	DNK	0.05	0.005				
VLA	ESP	0.052	0.005				
VLEP	FRA	0.1	0.01	0.2	0.02		
TLV	GRC	0.2		0.2			
AK	HUN	0.05		0.05			
TLV	NOR	0.05	0.005				
NDS/NDSch	POL	0.03		0.09			
TLV	ROU			0.15			
NGV/KGV	SWE	0.03	0.002	0.05	0.005		STEL: 5 min
NPEL	SVK	0.03	0.002				
TLV-ACGIH		0.051	0.005				

Legend: (C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

### Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

### Hand protection

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### Skin protection

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### Eye protection

Wear airtight protective goggles (see standard EN 166).

### Respiratory protection

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### Environmental exposure controls

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance:	<i>Paste</i>
Colour:	<i>Various</i>
Odour:	<i>Characteristic</i>
Melting point:	<i>not available</i>
Boiling point:	<i>not available</i>
Flammability (solid, gas):	<i>not available</i>
Lower explosive limit	<i>not available</i>
Upper explosive limit	<i>not available</i>
Flash point:	<i>not available</i>
Auto-ignition temperature:	<i>not available</i>



Decomposition temperature:	<i>not available</i>
pH:	<i>not available</i>
Viscosity, kinematic:	<i>not available</i>
Solubility:	<i>not available</i>
Partition coefficient: n-octanol/water	<i>not available</i>
Vapour pressure:	<i>not available</i>
Density and/or relative density	<i>1.05-1.10 g/cm<sup>3</sup></i>
Relative vapour density	<i>not available</i>
Particle characteristics	<i>not applicable</i>
Other information	
VOC content:	<i>&lt; 50 g/l</i>

#### Other information

Information with regard to physical hazard classes Information not available

Other safety characteristics Information not available

## 10- STABILITY AND REACTIVITY

### Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

Decomposes at 274°C/525°F.

With water it develops carbon dioxide and forms an insoluble solid polymer and consequently any wet material recovered must be stored in open containers.

#### Chemical stability

The product is stable in normal conditions of use and storage.

#### Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### XYLENE

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

May react dangerously with: alcohols, amines, ammonia, sodium hydroxide, acids, water, strong acids, strong bases.

#### Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

**Incompatible materials** Information not available

#### Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### DIPHENYLMETHANE-4,4'-DIISOCYANATE

- May develop: nitric oxide, carbon oxides, hydrogen cyanide.

## 11 – TOXICOLOGICAL INFORMATION

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

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

##### **XYLENE (MIXTURE OF ISOMERS)**

**WORKERS:** inhalation; contact with the skin.

**POPULATION:** ingestion of contaminated food or water; inhalation of ambient air.

##### **DIPHENYLMETHANE-4,4'-DIISOCYANATE**

**WORKERS:** inhalation; contact with the skin.

**POPULATION:** inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

##### **XYLENE (MIXTURE OF ISOMERS)**

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

##### **DIPHENYLMETHANE-4,4'-DIISOCYANATE**

Causes symptoms of irritation of the eye mucous membranes, upper respiratory and digestive tract and also to the skin; lung irritation of the bronchitis type (chest pains, cough, asthmatic wheezing), neurological symptoms (dizziness, balance disorders, headaches and consciousness disturbances). In severe cases, may give rise to delayed pulmonary edema (INRS, 2009). May cause hypersensitivity pneumonia which, in the event of continuous exposure, may progress to interstitial fibrosis (INRS, 2009).

#### Interactive effects

##### **XYLENE (MIXTURE OF ISOMERS)**

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

##### **DIPHENYLMETHANE-4,4'-DIISOCYANATE**

Cross sensitisations with other isocyanates are possible, in particular with TDI (toluene diisocyanate).

#### **ACUTE TOXICITY**

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: >2000 mg/kg

## **XYLENE (MIXTURE OF ISOMERS)**

LD50 (Dermal): 4350 mg/kg Rabbit

STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg Rat

LC50 (Inhalation vapours): 26 mg/l/4h Rat

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

## **TITANIUM DIOXIDE**

LD50 (Oral): > 10000 mg/kg Rat

### **SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class

### **SERIOUS EYE DAMAGE / IRRITATION**

Does not meet the classification criteria for this hazard class

### **RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction.

Contains: DIPHENYLMETHANE-4,4'-DIISOCYANATE

### **GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

### **CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

## **XYLENE (MIXTURE OF ISOMERS)**

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

### **REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

### **STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

### **STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

## **Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## 12 – ECOLOGICAL INFORMATION

### **Toxicity**

#### **Persistence and degradability:**

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Rapidly degradable

TITANIUM DIOXIDE

Solubility in water < 0.001 mg/l

Degradability: information not available

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Solubility in water 0,1 - 100 mg/l

NOT rapidly degradable

#### **Bioaccumulative potential:**

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3.12

BCF 25.9

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Partition coefficient: n-octanol/water 4.51

#### **Mobility in soil:**

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2.73

**Results of PBT and vPvB assessment:** On the basis of available data, the product does not contain any PBT or vPvB in percentage than 0,1%.

#### **Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### **Other adverse effects**

Information not available

## 13 – DISPOSAL CONSIDERATIONS

### **Waste treatment methods**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

### **CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **14- TRANSPORT INFORMATION**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**UN number or ID number**

not applicable

**UN proper shipping name**

not applicable

**Transport hazard class(es)**

not applicable

**Packing group**

not applicable

**Environmental hazards**

not applicable

**Special precautions for user**

not applicable

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

Information not relevant

## **15 - REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Seveso Category - Directive 2012/18/EU:** None

**Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006**

None

**Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors**

not applicable

**Substances in Candidate List (Art. 59 REACH)**

On the basis of available data, the product does not contain any SVHC in percentage than 0,1%.

**Substances subject to authorisation (Annex XIV REACH)**

None

**Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:**

None

**Substances subject to the Rotterdam Convention:**

None

**Substances subject to the Stockholm Convention:**

None

**Healthcare controls**

Information not available

**Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**16-OTHER INFORMATION**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3

Carc. 2 Carcinogenicity, category 2

Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Resp. Sens. 1 Respiratory sensitization, category 1

Skin Sens. 1 Skin sensitization, category 1

H226 Flammable liquid and vapour.

H351 Suspected of causing cancer.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

EUH210 Safety data sheet available on request.

Use descriptor system: PC 1 Adhesives, sealants

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level

- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148

- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.