UK REACH Regulations SI 2019/758



Bond + Seal White 300ml

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20.0	26.06.2024	9655320-00009	Date of first issue: 22.12.2009

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

1.1 Product identifier Trade name	: Bond + Seal White 300ml
Product code	: 08901001
Unique Formula Identifier (UFI)	: SJ25-X0AJ-8003-NWRN

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

Use of the Sub- stance/Mixture	:	Adhesives, Sealant Professional use product
Recommended restrictions	:	May only be used by trained personnel.

on use

1.3 Details of the supplier of the safety data sheet

Company	:	Wurth UK Ltd 1 Centurion Way Erith, Kent
Telephone	:	+44 (0)3300 555 444
Telefax	:	+44 (0)3300 555 666
E-mail address of person responsible for the SDS	:	prodsafe@wuerth.com

1.4 Emergency telephone number

+44 (0)870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)				
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.			



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :		
Signal word :	Danger	
Hazard statements :	H334	May cause allergy or asthma symptoms or breath- ing difficulties if inhaled.
	H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements :	Prevention P260 P284	: Do not breathe vapours. Wear respiratory protection.
	Response:	
	P304 + P34	0 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P342 + P31	1 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
	Disposal:	
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

4,4'-Diphenylmethane diisocyanate

m-Tolylidene diisocyanate

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome). Vapours may form explosive mixture with air.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	>= 1 - < 10
Methylene-bis-4,1-(N-phenylene-N'- butylurea)	77703-56-1 416-600-4 01-0000016345-72	Aquatic Chronic 4; H413	>= 2.5 - < 10
Xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 1 - < 2.5
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%)	64742-82-1 01-2119458049-33	Flam. Liq. 3; H226 STOT SE 3; H336 STOT RE 1; H372 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2.5
4,4'-Diphenylmethane diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373 (Respiratory Tract) $\overline{}$ specific concentra- tion limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 %	>= 0.1 - < 1



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				Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0.1 %	
m-Toly	lidene diisocyanate	24 6 0	6471-62-5 47-722-4 15-006-00-4 1-211945479	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 91-34 Resp. Sens. 1; H334 Skin Sens. 1; H31 Carc. 2; H351 STOT SE 3; H335 Aquatic Chronic 3; H412 specific concentra- tion limit Resp. Sens. 1; H334 >= 0.1 %	0 >= 0.0025 - < 0.025
Substa	nces with a workplace	exposure li	imit :		
Limesto	one	1: 2 [:]	317-65-3 15-279-6		>= 20 - < 30
Polyvin	nyl chloride	90	002-86-2		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.

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			Wash clothing bef Thoroughly clean	ore reuse. shoes before reuse.		
In case	of eye contact	:	Flush eyes with w Get medical atten	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.			
4.2 Most im	portant symptoms ar	nd e	ffects, both acute	and delayed		
Risks		:	Respiratory symptodelayed. Excessive exposure other respiratory of tive airways dysfure	toms, including pulmonary edema, may be re may aggravate preexisting asthma and lisorders (e.g. emphysema, bronchitis, reac- nction syndrome).		
			May cause allergy ties if inhaled. May cause damag exposure.	or asthma symptoms or breathing difficul-		

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1	Extinguishing media		
	Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Water spray in large fire situations
	Unsuitable extinguishing media	:	High volume water jet
5.2	Special hazards arising from t	he	substance or mixture
	Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
	Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides Nitrogen oxides (NOx) Chlorine compounds

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5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions	:	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up :	 Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. After approximately one hour, transfer to waste container and do not seal, due to evolution of carbon dioxide. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling		
Technical measures	See Engineering measu CONTROLS/PERSONA	res under EXPOSURE L PROTECTION section.
Local/Total ventilation	f sufficient ventilation is ventilation.	unavailable, use with local exhaust
Advice on safe handling	Do not get on skin or clo Do not breathe vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly af Handle in accordance w practice, based on the re- sessment Keep container tightly cl Keep away from water. Protect from moisture. Already sensitised indivional o asthma, allergies, chr should consult their physiory irritants or sensitise Keep away from heat, h other ignition sources. No Take precautionary mea Do not eat, drink or smo Take care to prevent spion environment.	thing. ter handling. ith good industrial hygiene and safety esults of the workplace exposure as- osed. duals, and those susceptible onic or recurrent respiratory disease, sician regarding working with respira- rs. ot surfaces, sparks, open flames and o smoking. sures against static discharges. ke when using this product. Ils, waste and minimize release to the
Hygiene measures	f exposure to chemical lushing systems and sa place. When using do no vork clothing should not Nash contaminated clot	is likely during typical use, provide eye fety showers close to the working ot eat, drink or smoke. Contaminated be allowed out of the workplace. hing before re-use.
7.2 Conditions for safe storage, i	ding any incompatibili	ties
Requirements for storage areas and containers	Keep in properly labelle from moisture. Keep in a accordance with the par away from heat and sou	d containers. Store locked up. Protect a cool, well-ventilated place. Store in ticular national regulations. Keep rces of ignition.
Advice on common storage	Do not store with the fol Strong oxidizing agents Self-reactive substances Drganic peroxides Explosives	lowing product types: s and mixtures



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		Gases	
Storage	e period	: 12 Months	
7.3 Specific end use(s) Specific use(s) :		: No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis	
		of exposure)			
Limestone	1317-65-3	TWA (inhalable	10 mg/m3	GB EH40	
		dust)			
		TWA (Respirable	4 mg/m3	GB EH40	
		dust)	-		
Polyvinyl chloride	9002-86-2	TWA (inhalable	10 mg/m3	GB EH40	
		dust)	-		
		TWA (Respirable	4 mg/m3	GB EH40	
		dust)	-		
Titanium dioxide;	13463-67-7	TWA (inhalable	10 mg/m3	GB EH40	
[in powder form		dust)	-		
containing 1 % or					
more of particles					
with aerodynamic					
diameter ≤ 10 µm]					
		TWA (Respirable	4 mg/m3	GB EH40	
		dust)	-		
Xylene	1330-20-7	TWÁ	50 ppm	GB EH40	
			220 mg/m3		
	Further inform	ation: Can be absor	bed through the skin. The as	signed sub-	
	stances are th	ose for which there	are concerns that dermal abs	sorption will	
	lead to systemic toxicity.				
		STEL	100 ppm	GB EH40	
			441 mg/m3		
	Further inform	ation: Can be absor	bed through the skin. The as	signed sub-	
	stances are th	ose for which there	are concerns that dermal abs	sorption will	
	lead to systen	nic toxicity.			
		TWA	50 ppm	2000/39/EC	
			221 mg/m3		
	Further inform	ation: Identifies the	possibility of significant uptak	e through the	
	skin, Indicative				
		STEL	100 ppm	2000/39/EC	
			442 mg/m3		
	Further inform	ation: Identifies the	possibility of significant uptak	e through the	
	skin, Indicativ	e	······································		
4.4'-	101-68-8	TWA	0.02 mg/m3	GB EH40	
Diphenvlmethane			(NCO)		
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	diisocyanate	e				
		Fu	irther inform	ation: Capable of	causing occupational asthma.	
				STEL	0.07 mg/m3 (NCO)	GB EH40
		Fu	irther inform	ation: Capable of	causing occupational asthma.	
	m-Tolylidene cyanate	e diiso- 26	471-62-5	TWA	0.02 mg/m3 (NCO)	GB EH40
			irther inform	ation: Capable of	causing occupational asthma.	
				STEL	0.07 mg/m3 (NCO)	GB EH40
		Fu	irther inform	ation: Capable of	causing occupational asthma.	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Xylene	1330-20-7	methyl hippuric acid: 650 Millimo- les per mole creat- inine (Urine)	After shift	GB EH40 BAT
4,4'-Diphenylmethane diisocyanate	101-68-8	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
m-Tolylidene diisocya- nate	26471-62-5	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Xylene	Workers	Inhalation	Long-term systemic effects	221 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	442 mg/m3
	Workers	Inhalation	Long-term local ef- fects	221 mg/m3
	Workers	Inhalation	Acute local effects	442 mg/m3
	Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	65.3 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	260 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	65.3 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day



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		Consumers	Ingestion	Long-term systemic effects	12.5 mg/kg bw/day
4	,4'-Diphenylmethane liisocyanate	Workers	Inhalation	Long-term local ef- fects	0.05 mg/m3
		Workers	Inhalation	Acute local effects	0.1 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	0.025 mg/m3
		Consumers	Inhalation	Acute local effects	0.05 mg/m3
1 E c b	,2- Benzenedicarboxylic Icid, di-C9-11- Iranched alkyl esters, C10-rich	Workers	Inhalation	Long-term systemic effects	5.29 mg/m3
		Workers	Skin conta	ct Long-term systemic effects	41.67 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	1.3 mg/m3
		Consumers	Skin conta	ct Long-term systemic effects	20.83 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0.75 mg/kg bw/day
H C k r	Hydrocarbons, C9- C12, n-alkanes, isoal- canes, cyclics, aro- natics (2-25%)	Workers	Inhalation	Long-term systemic effects	330 mg/m3
		Workers	Skin conta	ct Long-term systemic effects	44 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	71 mg/m3
		Consumers	Skin conta	ct Long-term systemic effects	26 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day
Р р	/lethylene-bis-4,1-(N- phenylene-N'- putylurea)	Workers	Inhalation	Long-term systemic effects	49.37 mg/m3
		Workers	Skin conta	ct Long-term systemic effects	140 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	7.4 mg/m3
		Consumers	Skin conta	ct Long-term systemic effects	50 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	5 mg/kg bw/day
r a	n-Tolylidene diisocy- Inate	Workers	Inhalation	Long-term systemic effects	0.035 mg/m3
		Workers	Inhalation	Acute systemic ef- fects	0.14 mg/m3
		Workers	Inhalation	Long-term local ef- fects	0.035 mg/m3
		Workers	Inhalation	Acute local effects	0.14 mg/m3

Predicted No Effect Concentration (PNEC):



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Subst	tance name	Environmental Compartment	Value
Xylen	16	Fresh water	0.327 mg/l
		Intermittent use/release	0.327 mg/l
		Marine water	0.327 mg/l
		Sewage treatment plant	6.58 mg/l
		Fresh water sediment	12.46 mg/kg c weight (d.w.)
		Marine sediment	12.46 mg/kg c weight (d.w.)
		Soil	2.31 mg/kg dr weight (d.w.)
4,4'-Diphenylmethane diisocya- nate		Fresh water	1 mg/l
		Marine water	0.1 mg/l
		Intermittent use/release	10 mg/l
		Sewage treatment plant	1 mg/l
		Soil	1 mg/kg
Methy N'-bu	ylene-bis-4,1-(N-phenylene- tylurea)	Fresh water	0.1 mg/l
		Freshwater - intermittent	1 mg/l
		Marine water	0.01 mg/l
		Sewage treatment plant	10 mg/l
		Fresh water sediment	76.36 mg/kg o weight (d.w.)
		Marine sediment	7.636 mg/kg o weight (d.w.)
		Soil	15.15 mg/kg c weight (d.w.)
m-To	lylidene diisocyanate	Fresh water	0.0125 mg/l
		Marine water	0.00125 mg/l
		Intermittent use/release	0.125 mg/l
		Sewage treatment plant	1 mg/l
		Soil	1 mg/kg

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment	
Eye/face protection :	Wear the following personal protective equipment: Safety glasses Equipment should conform to BS EN 166

Hand protection

Material	:	Fluorinated rubber
Break through time	:	> 30 min
Glove thickness	:	0.4 mm
Directive	:	Equipment should conform to BS EN 374



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Re	emarks	:	Choose gloves to on the concentrat stance and specif we recommend cl aforementioned p er. Wash hands b	protect hands against chemicals depending ion and quantity of the hazardous sub- ic to place of work. For special applications, arifying the resistance to chemicals of the rotective gloves with the glove manufactur- efore breaks and at the end of workday.
Skin a	and body protection	:	Select appropriate sistance data and tial. Wear the following If assessment der atmospheres or fl tective clothing. Skin contact must clothing (gloves, a	e protective clothing based on chemical re- an assessment of the local exposure poten- g personal protective equipment: monstrates that there is a risk of explosive ash fires, use flame retardant antistatic pro- t be avoided by using impervious protective aprons, boots, etc).
Respi	iratory protection	:	If adequate local of sure assessment ommended guide Equipment should	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection. d conform to BS EN 14387
Fil	ter type	:	Combined particu	lates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	white
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	76 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available





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Lov flan	ver explosion limit / Lower nmability limit	:	No data available	3			
Vap	oour pressure	:	No data available)			
Rel	ative vapour density	:	No data available				
Der	nsity	:	ca. 1.26 g/cm ³ (2	0 °C)			
Sol	ubility(ies) Water solubility	:	insoluble				
Par octa	tition coefficient: n- anol/water	:	Not applicable				
Aut	o-ignition temperature	:	No data available				
Dec	composition temperature	:	No data available				
Vis	cosity Viscosity, kinematic	:	> 20.5 mm2/s (40) °C)			
Exp	losive properties	:	Not explosive				
Oxi	dizing properties	:	The substance or	r mixture is not classified as oxidizing.			
9.2 Othe	er information						
Flai	nmability (liquids)	:	No data available	9			
Par	ticle size	:	: Not applicable				

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.

Polymerises at high temperatures with evolution of carbon dioxide.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Combustible liquid.
	Vapours may form explosive mixture with air.
	Isocyanates react with many materials and the rate of reaction
	increases with temperature as well as increased contact;
	these reactions can become violent. Contact is increased by
	stirring or if the other material mixes with the isocyanate.
	Exothermic reaction with acids, amines and alcohols
	Reacts with water to form carbon dioxide and heat

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		lsocy but r dioxi Haza tact	vanates are eact slowly a de gas and ardous deco with water o	not soluble in water and sink to the bottom, at the interface. The reaction forms carbon a layer of solid polyurea. mposition products will be formed upon con- humid air.
10.4 Condit	tions to avoid			
Conditi	ons to avoid	: Expo Heat	sure to mois , flames and	sture I sparks.
10.5 Incom	patible materials			
Materia	als to avoid	: Oxid Acid Base Wate Alco Amir Amn Alum Zinc Bras Tin Cop Galv Hum	izing agents s es hols honia hinium s oer anised meta id air	ls
10.6 Hazaro	lous decomposition	products		
No haz	ardous decomposition	products a	are known.	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method



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	<u>Comp</u>	onents:							
	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]:								
	Acute	oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg				
	Acute	inhalation toxicity	:	LC50 (Rat): > 6. Exposure time: 4 Test atmosphere Assessment: Th tion toxicity	82 mg/l 4 h e: dust/mist e substance or mixture has no acute inhala-				
	Methy	vlene-bis-4,1-(N-pher	nylen	e-N'-butylurea):					
	Acute	oral toxicity	:	LD50 (Rat): > 2, Method: OECD Assessment: Th icity	000 mg/kg Test Guideline 401 e substance or mixture has no acute oral tox-				
	Acute	dermal toxicity	:	LD50 (Rat): > 2, Method: OECD Assessment: Th toxicity	000 mg/kg Test Guideline 402 e substance or mixture has no acute dermal				
	Xylen	e:							
	Acute	oral toxicity	:	LD50 (Rat): 3,52 Method: Directiv	23 mg/kg e 67/548/EEC, Annex V, B.1.				
	Acute	inhalation toxicity	:	Acute toxicity es Exposure time: 4 Test atmosphere Method: Expert j Remarks: Based	timate: 11 mg/l 4 h e: vapour udgement I on national or regional regulation.				
	Acute	dermal toxicity	:	Acute toxicity es Method: Expert j Remarks: Basec	timate: 1,100 mg/kg udgement I on national or regional regulation.				
	Hydro	ocarbons, C9-C12, n-	alkar	es, isoalkanes, d	cyclics, aromatics (2-25%):				
	Acute	oral toxicity	:	LD50 (Rat): > 15	5,000 mg/kg				
	Acute	inhalation toxicity	:	LC50 (Rat): > 13 Exposure time: 4 Test atmosphere	3.1 mg/l 4 h e: vapour				
	Acute	dermal toxicity	:	: LD50 (Rat): > 3,400 mg/kg					
	4,4'-D	iphenylmethane diis	socya	nate:					
	Acute	oral toxicity	:	LD50 (Rat): > 2, Assessment: Th icity	000 mg/kg e substance or mixture has no acute oral tox-				



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			Remarks: Based	on data from similar materials	
Acute	inhalation toxicity	:	LC50 (Rat): > 2.24 Exposure time: 1 Test atmosphere: Method: OECD Te	4 mg/l h dust/mist est Guideline 403	
Acute	Acute dermal toxicity		LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials		
m-To	lylidene diisocyanate:				
Acute	oral toxicity	:	LD50 (Rat, female	e): 4,130 mg/kg	
Acute	inhalation toxicity	:	LC50 (Rat): 0.48 Exposure time: 1 Test atmosphere:	ng/l h vapour	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 9	9,400 mg/kg	
Lime	stone:				
Acute	e oral toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The icity Remarks: Based o	00 mg/kg est Guideline 420 substance or mixture has no acute oral tox- on data from similar materials	
Acute	inhalation toxicity	:	LC50 (Rat): > 3 m Exposure time: 4 Test atmosphere: Method: OECD To Assessment: The tion toxicity Remarks: Based of	g/l h dust/mist est Guideline 403 substance or mixture has no acute inhala- on data from similar materials	
Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity Remarks: Based o	00 mg/kg est Guideline 402 substance or mixture has no acute dermal on data from similar materials	

Skin corrosion/irritation

Not classified based on available information.

Components:

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 µm]:

Species	:	Rabbit
Result	:	No skin irritation

Methylene-bis-4,1-(N-phenylene-N'-butylurea):



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	Specie: Methoo Result	s I	:	Rabbit OECD Test Guid No skin irritation	deline 404		
	Xvlene	:					
	Specie Result	S	:	Rabbit Skin irritation			
	Hydrod	carbons, C9-C12, n-a	lkar	nes, isoalkanes, o	cyclics, aromatics (2-25%):		
	Specie	S	:	Rabbit			
	Methoo Result	1	:	OECD Test Guid No skin irritation	deline 404		
	Assess	ment	:	Repeated expos	ure may cause skin dryness or cracking.		
	4,4'-Dij	phenylmethane diiso	суа	nate:			
	Specie	S	:	Rabbit			
	Method	1	:	: OECD Test Guideline 404			
	Result	ks	÷	: Skin irritation Based on data from similar materials			
	Roman		•	Bused on data h			
	m-Toly	lidene diisocyanate:					
	Specie	S	:	Rabbit			
	Methoo	1	:	OECD Test Guid	deline 404		
	Result		•	Skin initation			
	Limest	one:					
	Specie	S	:	Rabbit			
	Method	1	:	OECD Test Guid	deline 404		
	Result	ks		Based on data fr	rom similar materials		
	rtoman		•	Daood on data n			
	Seriou	s eye damage/eye irı	itati	ion			
	Not cla	ssified based on avail	able	information.			
	<u>Compo</u>	onents:					
	Titaniu diamet	ım dioxide; [in powd er ≤ 10 μm]:	er fo	orm containing 1	% or more of particles with aerodynamic		
	Specie	S	:	Rabbit			
	Result		:	No eye irritation			
	Methyl	ene-bis-4,1-(N-phen	/len	e-N'-butylurea):			
	Specie	S	:	Rabbit			
	Method	1	:	OECD Test Guid	deline 405		
	Result		:	No eye irritation			

Xylene:



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Spe Res	cies ult	: Rabbit : Irritation to ey	res, reversing within 21 days								
Hyd	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):										
Spe	cies	: Rabbit									
Met	hod	: OECD Test C	Guideline 405								
Res	ult	: No eye irritati	on								
4,4'	-Diphenylmethane diis	ocyanate:									
Res	ult	: Irritation to ey	es, reversing within 7 days								
Ren	narks	: Based on nat	ional or regional regulation.								
m-T	olylidene diisocyanate):									
Spe	cies	: Rabbit									
Res	ult	: Irritation to ey	res, reversing within 21 days								
Lim	estone:										
Spe	cies	: Rabbit									
Met	hod	: OECD Test G	Guideline 405								
Res	ult	: No eye irritati	on								
Ren	narks	: Based on dat	a from similar materials								
Res	piratory or skin sensit	isation									
Skii	n sensitisation										
Not	classified based on ava	ilable information.									
Res	piratory sensitisation										
Мау	cause allergy or asthm	a symptoms or brea	thing difficulties if inhaled.								
<u>Cor</u>	nponents:										
Tita diar	nium dioxide; [in powo neter ≤ 10 µm]:	der form containing	1 % or more of particles with aerodynamic								
Tes	t Type	: Local lymph r	node assay (LLNA)								
Exp	osure routes	: Skin contact									
Spe	cies	: Mouse									
Res	ult	: negative									
Met	hylene-bis-4,1-(N-pher	ylene-N'-butylurea):								
Tes	t Туре	: Maximisation	Test								
Exp	osure routes	: Skin contact									
Spe	cies	: Guinea pig									
Met	nod	: OECD Test G	Suideline 406								
Kes	uit	. negative									
Xyle	ene:										
Tes	t Type	: Local lymph r	node assay (LLNA)								
Exp	osure routes	: Skin contact									

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Speci Resul	es t	: Mouse : negative	
Hydro	ocarbons, C9-C12, n	-alkanes, isoalka	nes, cyclics, aromatics (2-25%):
Test T Expos Specie Metho Resul	ype sure routes es od t	: Maximisat : Skin conta : Guinea pi : OECD Te : negative	ion Test act g st Guideline 406
4,4'-D	iphenylmethane dii	socyanate:	
Test T Expos Specie Resul	⊽pe sure routes es t	: Buehler T : Skin conta : Guinea pi : positive	est act g
Asses	sment	: Probability	or evidence of skin sensitisation in humans
Expos Speci Resul Rema	sure routes es t rks	: Inhalation : Rat : positive : Based on	data from similar materials
Asses	sment	: Probability animal tes	of respiratory sensitisation in humans based on ting
m-Tol	lylidene diisocyanat	e:	
Test T Expos Specie Resul	ype sure routes es t	: Local lym : Skin conta : Mouse : positive	oh node assay (LLNA) act
Asses	sment	: Probability	or evidence of skin sensitisation in humans
Expos Speci Resul	sure routes es t	inhalation Guinea pi positive	(vapour) g
Asses	sment	: Probability animal tes	of respiratory sensitisation in humans based on ting
Limes	stone:		
Test 1 Expos Specie Metho Resul	⊽pe sure routes es od t rks	: Local lym : Skin conta : Mouse : OECD Te : negative : Based on	oh node assay (LLNA) act st Guideline 429 data from similar materials

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	Germ cell mutagenicity Not classified based on available information.									
	Components:									
	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]:									
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)					
	Genoto	oxicity in vivo	:	Test Type: In vivo micronucleus test Species: Mouse Result: negative						
	Methyl	ene-bis-4,1-(N-pheny	lene	e-N'-butylurea):						
	Genoto	exicity in vitro	:	Test Type: Bacter Method: OECD Te Result: negative	ial reverse mutation assay (AMES) est Guideline 471					
				Test Type: In vitro Method: OECD Te Result: negative	e mammalian cell gene mutation test est Guideline 476					
				Test Type: Chrom Method: OECD Te Result: negative	osome aberration test in vitro est Guideline 473					
	Genoto	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Rat Application Route Method: OECD Te Result: negative	nalian erythrocyte micronucleus test (in vivo) : Skin contact est Guideline 474					
	Xvlene									
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)					
				Test Type: Chrom Result: negative	osome aberration test in vitro					
				Test Type: In vitro Result: negative	mammalian cell gene mutation test					
				Test Type: In vitro malian cells Result: negative	sister chromatid exchange assay in mam-					
	Genoto	oxicity in vivo	:	Test Type: Roden Species: Mouse Application Route Result: negative	t dominant lethal test (germ cell) (in vivo) : Skin contact					

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Hyd	rocarbons, C9-C12, n-	alkan	es, isoalkanes, c	yclics, aromatics (2-25%):			
Gen	otoxicity in vitro	:	Test Type: Chro Result: negative	mosome aberration test in vitro			
			Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)			
Gen	otoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials				
4,4'-	Diphenylmethane diis	ocyai	nate:				
Gen	otoxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)			
Gen	otoxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Rat Application Rout Method: OECD Result: negative	malian erythrocyte micronucleus test (in vivo y) e: inhalation (dust/mist/fume) Fest Guideline 474			
m-Te	olylidene diisocyanate	e:					
Gen	otoxicity in vitro	:	Test Type: Bacte Method: OECD Result: positive	erial reverse mutation assay (AMES) Fest Guideline 471			
Gen	otoxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Rat Application Rout Result: negative	malian erythrocyte micronucleus test (in vivo y) e: inhalation (vapour)			
Lim	actoro-						
Gen	otoxicity in vitro	:	Test Type: Bacter Method: OECD Result: negative Remarks: Based Test Type: Chron Method: OECD Result: negative Remarks: Based Test Type: In vitr	erial reverse mutation assay (AMES) Test Guideline 471 on data from similar materials mosome aberration test in vitro Test Guideline 473 on data from similar materials			
			Method. OLOD				

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Result: negative Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 µm]:

Species	:	Rat
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	2 Years
Method	:	OECD Test Guideline 453
Result	:	positive
Remarks	:	The mechanism or mode of action may not be relevant in humans.
Carcinogenicity - Assess- ment	:	Limited evidence of carcinogenicity in inhalation studies with animals.

Xylene:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	103 weeks
Result	:	negative

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

:	Rat
:	inhalation (vapour)
:	105 weeks
:	negative
:	Based on data from similar materials
	::

4,4'-Diphenylmethane diisocyanate:

Species	:	Rat
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	2 Years
Result	:	positive
Remarks	:	Based on data from similar materials
Carcinogenicity - Assess- ment	:	Limited evidence of carcinogenicity in animal studies

m-Tolylidene diisocyanate:

Carcinogenicity - Assess-	:	Limited evidence of carcinogenicity in animal studies
ment		

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Repr	oductive toxicity			
Not c	lassified based on avail	lable	information.	
Com	ponents:			
Meth	ylene-bis-4,1-(N-phen	ylen	e-N'-butylurea):	
Effec	ts on fertility	:	Test Type: One-g Species: Rat Application Route Method: OECD To Result: negative	eneration reproduction toxicity study : Ingestion est Guideline 415
Effec ment	ts on foetal develop-	:	Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative	
Xyler	ne:			
Effec	ts on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : inhalation (vapour)
Effec ment	ts on foetal develop-	:	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative	
Hydr	ocarbons C9-C12 n-	alkan	es iscalkanes cu	(clics aromatics (2.25%):
Effec	ts on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative Remarks: Based	eneration reproduction toxicity study : inhalation (vapour) on data from similar materials
Effec ment	ts on foetal develop-	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative	
4.4'-D	Diphenylmethane diiso	ocva	nate:	
Effec ment	ts on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative Remarks: Based	ro-foetal development : inhalation (dust/mist/fume) on data from similar materials
m-To	lylidene diisocyanate	:		
Effec	ts on fertility	:	Test Type: Two-g	eneration reproduction toxicity study
			22/27	

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			Species: Rat Application Rou Result: negative	te: inhalation (vapour)
Effect ment	s on foetal develop-	:	Test Type: Ferti Species: Rat Application Rou Result: negative	lity/early embryonic development te: inhalation (vapour)
Lime	stone:			
Effect	s on fertility	:	Test Type: Com reproduction/de Species: Rat Application Rou Method: OECD Result: negative Remarks: Based	bined repeated dose toxicity study with the velopmental toxicity screening test te: Ingestion Test Guideline 422 d on data from similar materials
Effect ment	s on foetal develop-	:	: Test Type: Combined repeated dose toxicity study with t reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials	
STOT	- single exposure assified based on avai	lahla	information.	
NOL CI		lable		
Com	oonents:			
Com Xyler Asses	ponents: ne: ssment	:	May cause resp	iratory irritation.
Comp Xyler Asses	oonents: ne: ssment ocarbons, C9-C12, n-	: alkan	May cause resp	iratory irritation.
Comp Xyler Asses Hydro Asses	oonents: ne: ssment ocarbons, C9-C12, n-	: alkan :	May cause resp n es, isoalkanes, o May cause drow	iratory irritation. cyclics, aromatics (2-25%): vsiness or dizziness.
Comj Xyler Asses Hydro Asses 4,4'-C	oonents: ne: ssment ocarbons, C9-C12, n- ssment Diphenylmethane diis	alkan : cyai	May cause resp es, isoalkanes, o May cause drow nate:	iratory irritation. cyclics, aromatics (2-25%): <i>v</i> siness or dizziness.
Comj Xyler Asses Hydro Asses 4,4'-E Asses	oonents: ne: ssment ocarbons, C9-C12, n- ssment Diphenylmethane diis	alkan : ocyai	May cause resp n es, isoalkanes, o May cause drow n ate: May cause resp	iratory irritation. cyclics, aromatics (2-25%): vsiness or dizziness. iratory irritation.
Comj Xyler Asses Hydro Asses 4,4'-E Asses m-To	oonents: ne: ssment ocarbons, C9-C12, n- ssment Diphenylmethane diis ssment lylidene diisocyanate	alkan : ocyai :	May cause resp n es, isoalkanes, o May cause drow n ate: May cause resp	iratory irritation. cyclics, aromatics (2-25%): <i>v</i> siness or dizziness. iratory irritation.

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	<u>Comp</u>	onents:		
	Xylen	e:		
	Expos Targe Asses	sure routes t Organs sment	 inhalation (va Auditory system Shown to procentrations of 	pour) em duce significant health effects in animals at con- [:] >0.2 to 1 mg/l/6h/d.
	Hvdro	ocarbons. C9-C12. n-	alkanes, isoalkane	s. cvclics. aromatics (2-25%):
	Expos	sure routes	: Inhalation	, , , , , , , , , , , , , , , , , , ,
	Targe	t Organs	: Central nervo	us system
	Asses	sment	: Causes dama exposure.	age to organs through prolonged or repeated
	4,4'-D	iphenylmethane diis	ocyanate:	
	Expos	sure routes	: inhalation (du	st/mist/fume)
	l arge Asses	t Organs sment	: Respiratory I : Shown to pro centrations of	ract duce significant health effects in animals at con- ->0.02 to 0.2 mg/l/6h/d.
	Repea	ated dose toxicity		
	<u>Comp</u>	onents:		
	Titani diame	um dioxide; [in pow eter ≤ 10 µm]:	der form containing	g 1 % or more of particles with aerodynamic
	Specie	es	: Rat	
	NOAE	E.	: 24,000 mg/kg	1
	Applic Expos	ation Route sure time	: Ingestion : 28 Days	
	Specie	es	: Rat	
	NOAE	iL	: 10 mg/m3	
	Applic	ation Route	: inhalation (du	st/mist/fume)
	Expos	sure time	: 2 yr	
	Methy	/lene-bis-4,1-(N-pher	ylene-N'-butylurea):
	Specie	es	: Rat	
	NOAE	L Section Doute	: >= 1,000 mg/	kg
	Expos	ation Route	· 28 Davs	
	Metho	od	: OECD Test G	Guideline 407
	Xylen	e:		
	Specie	es	: Rat	
	LOAE	L Antion Boute	: > 0.2 - 1 mg/	
	Expos	sure time	: 13 Weeks	pour)
	Rema	rks	: Based on dat	a from similar materials

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Spec LOAE Appli Expo	ies EL cation Route sure time	: Rat : 150 mg/kg : Ingestion : 90 Days	
Hydr	ocarbons, C9-C12, r	-alkanes, isoalkanes,	cyclics, aromatics (2-25%):
Spec NOA Appli Expo	ies EL cation Route sure time	: Rat : 1,056 mg/kg : Ingestion : 90 Days	
Spec NOA LOAE Appli Expo	ies EL EL cation Route sure time	: Rat : 3.950 mg/l : 7.400 mg/l : Inhalation : 90 Days	
4,4'-[Diphenylmethane dii	socyanate:	
Spec NOAI LOAE Appli Expo Rema	ies EL EL cation Route sure time arks	: Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dust : 2 yr : Based on data	/mist/fume) from similar materials
m-To	olylidene diisocyana	e:	
Spec LOAE Appli Expo	ies EL cation Route sure time	: Rat, female : 0.000362 mg/l : inhalation (vapo : 113 Weeks	our)
Lime	stone:		
Spec NOAI Appli Expo Meth Rema	ies EL cation Route sure time od arks	: Rat : > 300 mg/kg : Ingestion : 28 Days : OECD Test Gu : Based on data	ideline 422 from similar materials
Aspi	ration toxicity		

Not classified based on available information.

Components:

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

Hydrocarbons, C9-C12, n-	alkane	es, isoalkanes, cyclics, aromatics (2-25%):
Inhalation	:	Symptoms: central nervous system effects

SECTION 12: Ecological information

12.1 Toxicity

Components:

Titanium dioxide; [in powder diameter ≤ 10 μm]:	' fo	rm containing 1 % or more of particles with aerodynamic
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 : > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Methylene-bis-4,1-(N-phenyle	ene	e-N'-butylurea):
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 250 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		NOELR (Desmodesmus subspicatus (green algae)): 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction

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			Method: OECD Te	est Guideline 201
Τc	xicity to microorganisms	:	NOEC (activated Exposure time: 3 Method: OECD Te	sludge): 100 mg/l h est Guideline 209
Xv	lene:			
Tc	xicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 13.5 mg/l 5 h
Tc aq	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD Te Remarks: Based o	agna (Water flea)): > 1 - 10 mg/l l h est Guideline 202 on data from similar materials
Tc pla	xicity to algae/aquatic ants	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 10 mg/l 2 h
Тс	xicity to microorganisms	:	NOEC : > 100 mg Exposure time: 3 Method: OECD Te Remarks: Based o	/l h est Guideline 209 on data from similar materials
Tc ici	xicity to fish (Chronic tox- y)	:	NOEC: > 0.1 - < 1 Exposure time: 35 Species: Danio re Method: OECD Te Remarks: Based of	mg/l 5 d rio (zebra fish) est Guideline 210 on data from similar materials
Tc aq ic	xicity to daphnia and other uatic invertebrates (Chron- toxicity)	:	EL10: > 1 - 10 mg Exposure time: 21 Species: Daphnia Method: OECD Te Remarks: Based o	µ/l ∣d magna (Water flea) est Guideline 211 on data from similar materials
Hy	drocarbons, C9-C12, n-al	lkan	ies, isoalkanes, cy	clics, aromatics (2-25%):
To	xicity to fish	:	LL50 (Oncorhyncl Exposure time: 96 Test substance: V Method: OECD Te	hus mykiss (rainbow trout)): > 10 - 30 mg/l 5 h Vater Accommodated Fraction est Guideline 203
To aq	xicity to daphnia and other uatic invertebrates	:	EL50 (Daphnia m Exposure time: 48 Test substance: V Method: OECD Te	agna (Water flea)): > 10 - 22 mg/l 3 h Vater Accommodated Fraction est Guideline 202
Tc pla	xicity to algae/aquatic ants	:	EL50 (Pseudokirc mg/l Exposure time: 72 Test substance: V Method: OECD Te	hneriella subcapitata (green algae)): 4.1 2 h Vater Accommodated Fraction est Guideline 201

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		NOELR (Pseudok mg/l Exposure time: 72 Test substance: V Method: OECD Te	irchneriella subcapitata (green algae)): 0.76 2 h Vater Accommodated Fraction est Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.097 mg/ Exposure time: 21 Species: Daphnia Test substance: V Method: OECD To Remarks: Based of	1 d magna (Water flea) Vater Accommodated Fraction est Guideline 211 on data from similar materials
4,4'-Diphenylmethane diisoo	cyai	nate:	
Toxicity to fish	:	LC50 (Oryzias lat Exposure time: 96 Remarks: Based o	ipes (Orange-red killifish)): > 3,000 mg/l 5 h on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD Te	agna (Water flea)): 129.7 mg/l l h est Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodes mg/l Exposure time: 72 Method: OECD To Remarks: Based of	mus subspicatus (green algae)): > 1,640 2 h est Guideline 201 on data from similar materials
		NOEC (Desmode Exposure time: 72 Method: OECD To Remarks: Based of	smus subspicatus (green algae)): 1,640 mg/l 2 h est Guideline 201 on data from similar materials
Toxicity to microorganisms	:	EC50 : > 100 mg/ Exposure time: 3 Method: OECD To Remarks: Based of	l h est Guideline 209 on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 10 mg/l Exposure time: 21 Species: Daphnia Method: OECD To Remarks: Based of	l d magna (Water flea) est Guideline 211 on data from similar materials
m-Tolylidene diisocyanate:			
Toxicity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	hus mykiss (rainbow trout)): 133 mg/l እ h est Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 18.3 mg/l 3 h



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Toxicit plants	y to algae/aquatic	:	EC50 (Chlorella v Exposure time: 96 Method: OECD Te	ulgaris (Fresh water algae)): 4,300 mg/l 5 h est Guideline 201
Toxicit	y to microorganisms	:	EC50 : > 100 mg/ Exposure time: 3 Method: OECD Te	h est Guideline 209
Toxicit aquatic ic toxic	y to daphnia and other c invertebrates (Chron- city)	:	NOEC: 1.1 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	d magna (Water flea) est Guideline 211
Ecoto	xicoloav Assessment			
Chroni	c aquatic toxicity	:	Harmful to aquation Remarks: Based of 1272/2008, Annes	c life with long lasting effects. on harmonised classification in EU regulation < VI
Limes	tone:			
Toxicit	y to fish	:	LL50 (Oncorhyncl Exposure time: 96 Test substance: V Method: OECD Te Remarks: Based of	nus mykiss (rainbow trout)): > 100 mg/l 5 h Vater Accommodated Fraction est Guideline 203 on data from similar materials
Toxicit aquatio	y to daphnia and other c invertebrates	:	LL50 (Daphnia ma Exposure time: 48 Test substance: V Method: OECD Te Remarks: Based o	agna (Water flea)): > 100 mg/l 5 h Vater Accommodated Fraction est Guideline 202 on data from similar materials
Toxicit plants	y to algae/aquatic	:	EL50 (Desmodes) Exposure time: 72 Test substance: V Method: OECD Te Remarks: No toxic Based on data fro	mus subspicatus (green algae)): > 14 mg/l ? h /ater Accommodated Fraction est Guideline 201 city at the limit of solubility m similar materials
			EL10 (Desmodes) Exposure time: 72 Test substance: V Method: OECD Te Remarks: No toxic Based on data fro	mus subspicatus (green algae)): > 14 mg/l ? h Vater Accommodated Fraction est Guideline 201 city at the limit of solubility m similar materials
Toxicit	y to microorganisms	:	EC50 : > 100 mg/ Exposure time: 3 Method: OECD Te Remarks: Based of	l h est Guideline 209 on data from similar materials

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12.2 Persistence and degradability									
	Components:								
	Methyl	ene-bis-4,1-(N-pheny	lene	e-N'-butylurea):					
	Biodegi	radability	:	Result: Not readily Biodegradation: Exposure time: 28 Method: OECD To	y biodegradable. 11 % 3 d est Guideline 301B				
	Xylene	:							
	Biodegi	radability	:	Result: Readily bi Biodegradation: 28 Exposure time: 28 Method: OECD To Remarks: Based of	odegradable. > 70 % 3 d est Guideline 301F on data from similar materials				
	Hydroc	arbons, C9-C12, n-al	kan	es, isoalkanes, cy	clics, aromatics (2-25%):				
	Biodeg	radability	:	Result: Readily bi Biodegradation: 7 Exposure time: 31 Method: OECD To Remarks: Based of	odegradable. 75.9 % I d est Guideline 301F on data from similar materials				
	4,4'-Dip	ohenylmethane diiso	cyaı	nate:					
	Biodegi	radability	:	Result: Not readily Biodegradation: (Exposure time: 28 Method: OECD To Remarks: Based (y biodegradable.) % 3 d est Guideline 302 on data from similar materials				
	m-Toly	lidene diisocyanate:							
	Biodegi	radability	:	Result: Not readily Biodegradation: (Exposure time: 28	y biodegradable.) % 3 d				
	Stability	/ in water	:	Degradation half I	ife (DT50): 30 s				
12.3	Bioacc	umulative potential							
	Compo	onents:							
	Methyl	ene-bis-4,1-(N-pheny	lene	e-N'-butylurea):					
	Partition octanol	n coefficient: n- /water	:	log Pow: 5.5 Method: OECD To	est Guideline 107				
	Xvlene	:							
	Partition octanol	n coefficient: n- /water	:	log Pow: 3.16 Remarks: Calcula	tion				

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Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Partition coefficient: n-	:	Pow: > 4
octanol/water		

4,4'-Diphenylmethane diisocyanate:

Bioaccumulation	:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 200
Partition coefficient: n- octanol/water	:	log Pow: 4.51

m-Tolylidene diisocyanate:

Partition coefficient: n-	:	log Pow: 3.43
octanol/water		

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting poten- tial	:	This substance/mixture does not contain components consid- ered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous.

븢 WÜRTH

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		Do not pressurize pose such contai of ignition. They r If not otherwise s	e, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources nay explode and cause injury and/or death. pecified: Dispose of as unused product.				
Waste Code		: The following Wa	The following Waste Codes are only suggestions:				
		used product 08 05 01, waste isocyanates					
		unused product 08 05 01, waste isocyanates					
		uncleaned packa 15 01 10, packag by hazardous sul	gings ing containing residues of or contaminated ostances				

SECTION 14: Transport information

14.1 UN number

	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.2	2 UN proper shipping name		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.:	3 Transport hazard class(es)		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.4	4 Packing group		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good



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RID		: Not reg	ulated as a	a dangerous good			
IMDG		: Not reg	ulated as a	a dangerous good			
IATA (Cargo)		: Not reg	: Not regulated as a dangerous good				
ΙΑΤΑ ((Passenger)	: Not reg	ulated as a	a dangerous good			
14.5 Environmental hazards							
Not regulated as a dangerous good							
14.6 Speci	al precautions for us	ər					
Not ap	plicable						

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks	:	Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
		4,4'-Diphenylmethane diisocyanate (Number on list 74, 56) 1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52) m-Tolylidene diisocyanate (Number on list 74)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable





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UK RE. (Annex	ACH List of substances XIV)	s subject to authorisation	on :	Not applicable		
GB Exp Informe	GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation					
Control	of Major Accident Haz	ards Regulations 2015 Not applicable	5 (COMA	H)		
Volatile	organic compounds	: Directive 2010/75 emissions (integra Volatile organic co Remarks: VOC co	/EU of 24 ated pollu ompound ontent ex	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 3.42 %, 43.6 g/l cluding water		

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical
		lines.

Full text of H-Statements

H226 H304 H312	:	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin.
H315	÷	Causes skin irritation.
	·	
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H334	•	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H351	:	Suspected of causing cancer if inhaled.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H373	:	May cause damage to organs through prolonged or repeated

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			AXDOSUIRA			
H37	3	:	May cause dam	age to organs through prolonged or repeated		
			exposure if inha	iled.		
H41	1	:	Toxic to aquation	life with long lasting effects.		
H41	2	:	Harmful to aqua	atic life with long lasting effects.		
H41	3	:	May cause long lasting harmful effects to aquatic life.			
Full	text of other abbrevia	tions				
Acut	e Tox.	:	Acute toxicity			
Aqu	atic Chronic	:	Long-term (chro	onic) aquatic hazard		
Asp.	Tox.	:	Aspiration haza	rd		
Card).	:	Carcinogenicity			
Eye	Irrit.	:	Eye irritation			
Flan	n. Liq.	:	Flammable liqu	ids		
Res	p. Sens.	:	Respiratory ser	sitisation		
Skin	Irrit.	:	Skin irritation			
Skin	Sens.	:	Skin sensitisatio	n		
STC	OT RE	:	Specific target of	organ toxicity - repeated exposure		
STC	OT SE	:	Specific target of	organ toxicity - single exposure		
2000	D/39/EC	:	Europe. Commi list of indicative	ssion Directive 2000/39/EC establishing a first occupational exposure limit values		
GB I	EH40	:	UK. EH40 WEL	- Workplace Exposure Limits		
GB I	EH40 BAT	:	UK. Biological r	nonitoring guidance values		
2000)/39/EC / TWA	:	Limit Value - eig	ght hours		
2000)/39/EC / STEL	:	Short term expo	osure limit		
GB I	EH40 / TWA	:	Long-term expo	sure limit (8-hour TWA reference period)		
GB I	EH40 / STEL	:	Short-term expo	osure limit (15-minute reference period)		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-



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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice	:	Observe requirements and guidance related to training before using this product at work.	
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/	
Classification of the mixtu	re:	Classification procedure:	
Resp. Sens. 1	H33	4 Calculation method	
STOT RE 2	H37	3 Calculation method	

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN