

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive Ureka Global Ltd

Version No: 1.2

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Chemwatch Hazard Alert Code: 4

Issue Date: **14/02/2023** Print Date: **14/02/2023** S.REACH.GB.EN

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

1.1. Product Identifier

Product name	oodstikk PU Rapid Gel D4 Polyurethane Adhesive		
Chemical Name	pplicable		
Synonyms	Not Available		
Chemical formula	Not Applicable		
Other means of identification	UFI:V1GV-S0ES-300H-04UC		

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

Chemical Product Category	PC1 Adhesives, sealants			
Relevant identified uses	Substituted morpholine derivatives are the core of various natural products and biologically active compounds. This class of compounds has bound important applications in pharmaceuticals and in agricultural use. Chiral morpholine derivatives have found numerous applications in asymmetric synthesis as chiral auxiliaries as well as chiral ligands.			
Uses advised against	No specific uses advised against are identified.			

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Ureka Global Ltd			
Address	Decoypool Road, St Modwen Park, Newport, NP19 4RG United Kingdom			
Telephone	+44 (0)117 971 1364			
Fax	Not Available			
Website	www.thenamethatsticks.com			
Email	sales@thenamethatsticks.com			

1.4. Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classified according to	
GB-CLP Regulation, UK SI	
2019/720 and UK SI 2020/1567	
[1]	

H334 - Sensitisation (Respiratory) Category 1, H373 - Specific Target Organ Toxicity - Repeated Exposure Category 2, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2, H317 - Sensitisation (Skin) Category 1, H351 - Carcinogenicity Category 2

Legend: 1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

2.2. Label elements

Hazard pictogram(s)



Version No: 1.2 Page 2 of 16 Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Signal word Hazard statement(s) H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. (Respiratory system) (Inhalation) H335 May cause respiratory irritation. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

H351

Suspected of causing cancer.

P201	btain special instructions before use.	
P260	Do not breathe mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P284	[In case of inadequate ventilation] wear respiratory protection.	
P264	Wash all exposed external body areas thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

	·	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P308+P313 IF exposed or concerned: Get medical advice/ attention.		
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

Precautionary statement(s) Storage

residutionary statement(s) otorage		
P405	tore locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

diphenylmethane diisocyanate (MDI) mixed isomers	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
2,4'-diphenylmethane diisocyanate	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
4,4'-diphenylmethane diisocyanate (MDI)	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
2,2'-diphenylmethane diisocyanate	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1.26447-40-5 2.247-714-0 3.615-005-00-9 4.Not Available	<30	diphenylmethane diisocyanate (MDI) mixed isomers	Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Skin) Category 1, Sensitisation (Respiratory) Category 1, Carcinogenicity Category 2, Specific	Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0,1	Not Available

Version No: 1.2 Page 3 of 16 Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
			Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3 , Specific Target Organ Toxicity - Repeated Exposure Category 2; H332, H315, H319, H317, H334, H351, H335, H373 [2]	% STOT SE 3; H335: C ≥ 5 %	
1.5873-54-1 2.227-534-9 3.615-005-00-9 4.Not Available	<15	2.4'-diphenylmethane diisocyanate	Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Skin) Category 1, Sensitisation (Respiratory) Category 1, Carcinogenicity Category 2, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Specific Target Organ Toxicity - Repeated Exposure Category 2; H332, H315, H319, H317, H334, H351, H335, H373 [2]	Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	Not Available
1.101-68-8 2.202-966-0 406-550-1 3.615-005-00-9 4.Not Available	<15	4.4'-diphenylmethane diisocyanate (MDI)	Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Skin) Category 1, Sensitisation (Respiratory) Category 1, Carcinogenicity Category 2, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Specific Target Organ Toxicity - Repeated Exposure Category 2; H332, H315, H319, H317, H334, H351, H335, H373 [2]	Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	Not Available
1.6425-39-4 2.229-194-7 3.Not Available 4.Not Available	1-5	2,2'-dimorpholinodiethyl ether	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Skin) Category 1; H302, H315, H319, H317 [1]	Not Available	Not Available
1.2536-05-2 2.219-799-4 3.615-005-00-9 4.Not Available	<1	2.2'-diphenylmethane diisocyanate	Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Sensitisation (Skin) Category 1, Sensitisation (Respiratory) Category 1, Carcinogenicity Category 2, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Specific Target Organ Toxicity - Repeated Exposure Category 2; H332, H315, H319, H317, H334, H351, H335, H373 [2]	Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	Not Available
Legend:			on drawn from GB-CLP Regulation, UK SI 2019/720 and U tance identified as having endocrine disrupting properties	K SI 2020/1567; 3. Cla	ssification drawn

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.				
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.				
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted. 				
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 				

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

For sub-chronic and chronic exposures to isocyanates:

- * This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity.
- ▶ Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts.
- Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.
- ▶ Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.
- ▶ Some cross-sensitivity occurs between different isocyanates.
- Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.

Version No: 1.2 Page 4 of 16 Issue Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Print Date: 14/02/2023

- ► Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.
- Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.
- Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions.
- There is no effective therapy for sensitised workers.

[Ellenhorn and Barceloux; Medical Toxicology]

NOTE: Isocyanates cause airway restriction in naive individuals with the degree of response dependant on the concentration and duration of exposure. They induce smooth muscle contraction which leads to bronchoconstrictive episodes. Acute changes in lung function, such as decreased FEV1, may not represent sensitivity. [Karol & Jin, Frontiers in Molecular Toxicology, pp 56-61, 1992]

Personnel who work with isocyanates, isocyanate prepolymers or polyisocyanates should have a pre-placement medical examination and periodic examinations thereafter, including a pulmonary function test. Anyone with a medical history of chronic respiratory disease, asthmatic or bronchial attacks, indications of allergic responses, recurrent eczema or sensitisation conditions of the skin should not handle or work with isocyanates. Anyone who develops chronic respiratory distress when working with isocyanates should be removed from exposure and examined by a physician. Further exposure must be avoided if a sensitivity to isocyanates or polyisocyanates has developed.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- F Small quantities of water in contact with hot liquid may react violently with generation of a large volume of rapidly expanding hot sticky semi-solid foam.
- Presents additional hazard when fire fighting in a confined space.
- Cooling with flooding quantities of water reduces this risk
- Dry chemical powder.
- ► BCF (where regulations permit).

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

5.3. Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course.
	- Combustible Moderate fire hazard when exposed to heat or flame When heated to high temperatures decomposes rapidly generating vapour which pressures and may then rupture containers with release of flammable and highly toxic isocyanate vapour. Combustion products include: , carbon dioxide (CO2)
	isocyanates
Fire/Explosion Hazard	hydrogen cyanide , and minor amounts of
	nitrogen oxides (NOx) , other pyrolysis products typical of burning organic material. May emit corrosive fumes. When heated at high temperatures many isocyanates decompose rapidly generating a vapour which pressurises containers, possibly to the point of rupture. Release of toxic and/or flammable isocyanate vapours may then occur

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes.
Major Spills	 Liquid Isocyanates and high isocyanate vapour concentrations will penetrate seals on self contained breathing apparatus - SCBA should be used inside encapsulating suit where this exposure may occur. For isocyanate spills of less than 40 litres (2 m2): Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible. Notify supervision and others as necessary. Put on personal protective equipment (suitable respiratory protection, face and eye protection, protective suit, gloves and impermeable boots). Avoid contamination with water, alkalies and detergent solutions. Material reacts with water and generates gas, pressurises containers with even drum rupture resulting. DO NOT reseal container if contamination is suspected. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.

Version No: 1.2 Page **5** of **16** Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT allow clothing wet with material to stay in contact with skin
Fire and explosion protection	See section 5
Other information	for commercial quantities of isocyanates: Isocyanates should be stored in adequately bunded areas. Nothing else should be kept within the same bunding. Pre-polymers need not be segregated. Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Avoid cross contamination between the two liquid parts of product (kit). If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur. This excess heat may generate toxic vapour Contains a six-membered heterocyclic ring. Six-membered heterocycles can be described as pideficient. Substitution by electronegative groups or additional nitrogen atoms in the ring significantly increase the pi-deficiency. For morpholines: Morpholine undergoes most chemical reactions typical for other secondary amines, though the presence of the ether oxygen withdraws electron density from the nitrogen, rendering it less nucleophilic (and less basic) than structurally similar secondary amines such as piperidine. Avoid reaction with water, alcohols and detergent solutions. Isocyanates are electrophiles, and as such they are reactive toward a variety of nucleophiles including alcohols, amines, and even water. Upon treatment with an alcohol, an isocyanate forms a urethane linkage. A range of exothermic decomposition energies for isocyanates is given as 20-30 kJ/mol. The relationship between energy of decomposition and processing hazards has been the subject of discussion; it is suggested that values of energy released per unit of mass, rather than on a molar basis (J/g) be used in the assessment. For example, in "open vessel processes" (with man-hole size openings, in an industrial setting), substances with exothermic decomposition energies below 500 J/g are unlikely to present a danger, whilst those in "closed vessel processes" (opening is a safety valve or bursting disk) present some danger where the decomposition energy exceeds 150 J/g.
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
diphenylmethane diisocyanate (MDI) mixed isomers	Inhalation 0.05 mg/m³ (Local, Chronic) Inhalation 0.1 mg/m³ (Local, Acute) Inhalation 0.025 mg/m³ (Local, Chronic) * Inhalation 0.05 mg/m³ (Local, Acute) *	Not Available
2,4'-diphenylmethane diisocyanate	Inhalation 0.05 mg/m³ (Local, Chronic) Inhalation 0.1 mg/m³ (Local, Acute) Inhalation 0.025 mg/m³ (Local, Chronic) * Inhalation 0.05 mg/m³ (Local, Acute) *	1 mg/L (Water (Fresh)) 0.1 mg/L (Water - Intermittent release) 10 mg/L (Water (Marine)) 1 mg/kg soil dw (Soil) 1 mg/L (STP)
4,4'-diphenylmethane diisocyanate (MDI)	Inhalation 0.05 mg/m³ (Local, Chronic) Inhalation 0.1 mg/m³ (Local, Acute) Inhalation 0.025 mg/m³ (Local, Chronic) * Inhalation 0.05 mg/m³ (Local, Acute) *	1 mg/L (Water (Fresh)) 0.1 mg/L (Water - Intermittent release) 10 mg/L (Water (Marine)) 1 mg/kg soil dw (Soil) 1 mg/L (STP)
2,2'-dimorpholinodiethyl ether	Dermal 1 mg/kg bw/day (Systemic, Chronic) Inhalation 7.28 mg/m³ (Systemic, Chronic) Dermal 0.5 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.8 mg/m³ (Systemic, Chronic) * Oral 0.5 mg/kg bw/day (Systemic, Chronic) *	0.1 mg/L (Water (Fresh)) 0.01 mg/L (Water - Intermittent release) 1 mg/L (Water (Marine)) 8.2 mg/kg sediment dw (Sediment (Fresh Water)) 0.82 mg/kg sediment dw (Sediment (Marine)) 1.58 mg/kg soil dw (Soil) 100 mg/L (STP) 10 mg/kg food (Oral)

Version No: **1.2** Page **6** of **16** Issue Date: **14/02/2023**

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

DNELs PNECs Ingredient **Exposure Pattern Worker** Compartment 1 mg/L (Water (Fresh)) Inhalation 0.05 mg/m3 (Local, Chronic) 0.1 mg/L (Water - Intermittent release) Inhalation 0.1 mg/m³ (Local, Acute) 2,2'-diphenylmethane 10 mg/L (Water (Marine)) diisocyanate Inhalation 0.025 mg/m³ (Local, Chronic) * 1 mg/kg soil dw (Soil) Inhalation 0.05 mg/m³ (Local, Acute) * 1 mg/L (STP)

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs).	diphenylmethane diisocyanate (MDI) mixed isomers	Isocyanates, all (as -NCO) Except methyl isocyanate	0.02 mg/m3	0.07 mg/m3	Not Available	Sen
UK Workplace Exposure Limits (WELs).	2,4'-diphenylmethane diisocyanate	Isocyanates, all (as -NCO) Except methyl isocyanate	0.02 mg/m3	0.07 mg/m3	Not Available	Sen
UK Workplace Exposure Limits (WELs).	4,4'-diphenylmethane diisocyanate (MDI)	Isocyanates, all (as -NCO) Except methyl isocyanate	0.02 mg/m3	0.07 mg/m3	Not Available	Sen
UK Workplace Exposure Limits (WELs).	2,2'-diphenylmethane diisocyanate	Isocyanates, all (as -NCO) Except methyl isocyanate	0.02 mg/m3	0.07 mg/m3	Not Available	Sen

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
diphenylmethane diisocyanate (MDI) mixed isomers	29 mg/m3	40 mg/m3	240 mg/m3
4,4'-diphenylmethane diisocyanate (MDI)	0.45 mg/m3	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	29 mg/m3	40 mg/m3	240 mg/m3

Ingredient	Original IDLH	Revised IDLH
diphenylmethane diisocyanate (MDI) mixed isomers	Not Available	Not Available
2,4'-diphenylmethane diisocyanate	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	75 mg/m3	Not Available
2,2'-dimorpholinodiethyl ether	Not Available	Not Available
2,2'-diphenylmethane diisocyanate	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
2,2'-dimorpholinodiethyl ether	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a		

8.2. Exposure controls

8.2.1. Appropriate engineering

- All processes in which isocyanates are used should be enclosed wherever possible.
- Total enclosure, accompanied by good general ventilation, should be used to keep atmospheric concentrations below the relevant exposure standards.
- If total enclosure of the process is not feasible, local exhaust ventilation may be necessary.

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

8.2.2. Personal protection











Eye and face protection

- Safety glasses with side shields.
- Chemical goggles
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection

controls

See Hand protection below

NOTE:

The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

Hands/feet protection

Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Print Date: 14/02/2023

^{*} Values for General Population

Version No: **1.2** Page **7** of **16** Issue Date: **14/02/2023**

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice

- ▶ Do NOT wear natural rubber (latex gloves).
- Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves.
- ▶ Protective gloves and overalls should be worn as specified in the appropriate national standard.
- Contaminated garments should be removed promptly and should not be re-used until they have been decontaminated.
- DO NOT use skin cream unless necessary and then use only minimum amount.
- ▶ Isocyanate vapour may be absorbed into skin cream and this increases hazard.

Body protection

See Other protection below

Other protection

All employees working with isocyanates must be informed of the hazards from exposure to the contaminant and the precautions necessary to prevent damage to their health. They should be made aware of the need to carry out their work so that as little contamination as possible is produced, and of the importance of the proper use of all safeguards against exposure to themselves and their fellow workers. Adequate training, both in the proper execution of the task and in the use of all associated engineering controls, as well as of any personal protective equipment, is essential.

- Overalls.
- P.V.C apron.
- Barrier cream.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

N	Material	СРІ
F	PE/EVAL/PE	A

- * CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

Full face respirator with supplied air.

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Print Date: 14/02/2023

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

For spraying or operations which might generate aerosols:

Full face respirator with supplied air.

- In certain circumstances, personal protection of the individual employee is necessary. Personal protective devices should be regarded as being supplementary to substitution and engineering control and should not be used in preference to them as they do nothing to eliminate the hazard.
- However, in some situations, minimising exposure to isocyanates by enclosure and ventilation is not possible, and occupational exposure standards may be exceeded, particularly during on-site mixing of paints, spray-painting, foaming and maintenance of machine and ventilation systems. In these situations, air-line respirators or self-contained breathing apparatus complying with the appropriate nationals standard must be used.
- Organic vapour respirators with particulate pre- filters and powered, air-purifying respirators are NOT suitable.
- Personal protective equipment must be appropriately selected, individually fitted and workers trained in their correct use and maintenance. Personal protective equipment must be regularly checked and maintained to ensure that the worker is being protected.
- Air- line respirators or self-contained breathing apparatus complying with the appropriate national standard should be used during the clean-up of spills and the repair or clean-up of contaminated equipment and similar situations which cause emergency exposures to hazardous atmospheric concentrations of isocyanate.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties Appearance Cream paste

Physical state	Liquid	Relative density (Water = 1)	1.07
Odour	Slight	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	>200
pH (as supplied)	Not Available	Decomposition temperature (°C)	>140
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>200	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available

Version No: 1.2 Page 8 of 16 Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. Presence of elevated temperatures.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Ingestion corroborating anim. Accidental ingestion This material can contact with the Copen cuts, abraded Entry into the blood prior to the use of the Contact with the Copen cuts. This material may provide the contact with the Copen cuts, abraded Entry into the blood prior to the use of the Copen cuts. This material may provide the Copen cuts.	OT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of all or human evidence. In of the material may be damaging to the health of the individual. Bause inflammation of the skin on contact in some persons. Bause inflammation of the s
Skin Contact The material may a Skin contact with th Open cuts, abraded Entry into the blood prior to the use of the State Contact with the State Contact with the Open cuts, abraded Entry into the blood prior to the use of the State Contact with the Open cuts, abraded Entry into the use of the State Contact with the Open cuts, abraded Entry into the use of the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts, abraded Entry into the Use Contact with the Open cuts with the Open	accentuate any pre-existing dermatitis condition in material may be material may damage the health of the individual; systemic effects may result following absorption. It is interested skin should not be exposed to this material it-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin
may be expected w	oroduce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation rith redness; conjunctivitis may occur with prolonged exposure.
Long-term exposur Inhaling this product Skin contact with the Toxic: danger of see This material can contact exproduce severe defended by the contact expression of the contact expression of the contact exposured for the contac	e to morpholine and some related compounds may produce liver and kidney changes. Animal testing has shown evidence of on and inflammation, and damage to the eye. ory of asthma or other respiratory problems or are known to be sensitised, should not be engaged in any work involving the lates. It is action of isocyanates, as evidenced by MDI, in biological milieu is such that in the event of a true exposure of small MDI, reactions will commence at once with biological macromolecules in the buccal region and will continue along the digestive ing the stomach. Reaction products will be a variety of polyureas and macromolecular conjugates with for example mucus,

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive	TOXICITY	IRRITATION
Polyurethane Adnesive	Not Available	Not Available
	TOXICITY	IRRITATION
diphenylmethane diisocyanate	Dermal (rabbit) LD50: >6200 mg/kg ^[2]	Skin (rabbit): 500 mg /24 hours Dermal Sensitiser *Respiratory Sensitiser (g.pig) *[* = Bayer CCINFO 2133615]
(MDI) mixed isomers	Inhalation(Rat) LC50: 0.369 mg/l4h ^[2]	
	Oral (Rat) LD50: >2000 mg/kg ^[2]	
2,4'-diphenylmethane	TOXICITY	IRRITATION
diisocyanate	Not Available	Not Available

Version No: **1.2** Page **9** of **16** Issue Date: **14/02/2023**

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

TOXICITY IRRITATION Eye: no adverse effect observed (not irritating) $^{[1]}$ Dermal (rabbit) LD50: >6200 mg/kg^[2] 4,4'-diphenylmethane Skin (rabbit): 500 mg /24 hours Dermal Sensitiser *Respiratory diisocyanate (MDI) Inhalation(Rat) LC50: 0.368 mg/L4h[1] Sensitiser (g.pig) *[* = Bayer CCINFO 2133615] Oral (Mouse) LD50; 2200 mg/kg^[2] Skin: adverse effect observed (irritating)[1] TOXICITY IRRITATION Eye (rabbit): irritant OECD 405 Dermal (rabbit) LD50: 746.24 mg/kg^[1] Eye: adverse effect observed (irritating)[1] Oral (Rat) LD50: >2000 mg/kg[1] 2.2'-dimorpholinodiethyl ether Skin (rabbit): irritant OECD 404 Skin: no adverse effect observed (not irritating) $^{[1]}$ TOXICITY IRRITATION 2.2'-diphenylmethane diisocyanate Inhalation(Rat) LC50: 0.527 mg/L4h^[1] Not Available 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise Legend: specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 4,4'-DIPHENYLMETHANE Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabbit): 0.10 mg moderate DIISOCYANATE (MDI) Overexposure to most of these materials may cause adverse health effects. Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually 2,2'-DIMORPHOLINODIETHYL transient. **ETHER** There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing. Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs. Higher concentrations of certain amines can produce severe respiratory irritation, characterized by discharge from the nose, coughing, difficulty in breathing and chest pain. No experimental evidence available for genotoxicity in vitro (Ames test negative). *BASF Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition Woodstikk PU Rapid Gel D4 known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main Polyurethane Adhesive criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent & DIPHENYLMETHANE asthma-like symptoms within minutes to hours of a documented exposure to the irritant. DIISOCYANATE (MDI) MIXED Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic ISOMERS & 2,4'-DIPHENYLMETHANE potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than **DIISOCYANATE &** others, and exposure to other irritants may aggravate symptoms. 4,4'-DIPHENYLMETHANE Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. DIISOCYANATE (MDI) & 2,2'-Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T DIPHENYLMETHANE lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. DIISOCYANATE Isocyanate vapours are irritating to the airways and can cause their inflammation, with wheezing, gasping, severe distress, even loss of consciousness and fluid in the lungs. Nervous system symptoms that may occur include headache, sleep disturbance, euphoria, inco-ordination, anxiety, depression and paranoia Woodstikk PU Rapid Gel D4 Polyurethane Adhesive & DIPHENYLMETHANE DIISOCYANATE (MDI) MIXED ISOMERS & 2,4'-DIPHENYLMETHANE The following information refers to contact allergens as a group and may not be specific to this product. **DIISOCYANATE &** 4,4'-DIPHENYLMETHANE Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact **DIISOCYANATE (MDI) &** eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. 2,2'-DIMORPHOLINODIETHYL ETHER & 2,2'-DIPHENYLMETHANE DIISOCYANATE DIPHENYLMETHANE DIISOCYANATE (MDI) MIXED ISOMERS & 2,4'-DIPHENYLMETHANE No significant acute toxicological data identified in literature search **DIISOCYANATE &** 2.2'-DIPHENYLMETHANE DIISOCYANATE **DIPHENYLMETHANE** The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce DIISOCYANATE (MDI) MIXED coniunctivitis ISOMERS & The substance is classified by IARC as Group 3: 4,4'-DIPHENYLMETHANE NOT classifiable as to its carcinogenicity to humans. DIISOCYANATE (MDI) Evidence of carcinogenicity may be inadequate or limited in animal testing. **DIPHENYLMETHANE** DIISOCYANATE (MDI) MIXED ISOMERS & 2.4'-DIPHENYLMETHANE Aromatic and aliphatic diisocyanates may cause airway toxicity and skin sensitization. Monomers and prepolymers exhibit similar respiratory **DIISOCYANATE &** effect. Of the several members of diisocyanates tested on experimental animals by inhalation and oral exposure, some caused cancer while 4,4'-DIPHENYLMETHANE others produced a harmless outcome. DIISOCYANATE (MDI) & 2,2'-DIPHENYLMETHANE DIISOCYANATE

Print Date: 14/02/2023

Version No: 1.2 Page 10 of 16 Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Acute Toxicity	×	Carcinogenicity	✓
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	~
Mutagenicity	×	Aspiration Hazard	×

Legend:

★ - Data either not available or does not fill the criteria for classification

🧪 – Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine Disruption Properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other Information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

Woodstikk PU Rapid Gel D4	Endpoint	Test Duration (hr)		Species		Value	Source
Polyurethane Adhesive	Not Available	Not Available		Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Sp	ecies	Value		Source
dinkdu. etk e dii e e e etc	NOEC(ECx)	504h	Cri	ustacea	>=10r	mg/l	1
diphenylmethane diisocyanate (MDI) mixed isomers	EC50	96h	Alg	gae or other aquatic plants	3230r	ng/l	1
. ,	LC50	96h	Fis	h	95.24	-134.37mg/l	Not Available
2,4'-diphenylmethane	Endpoint	Test Duration (hr)		Species		Value	Source
diisocyanate	NOEC(ECx)	504h		Crustacea		>=10mg/l	2
	Endpoint	Test Duration (hr)	Sp	ecies	Value		Source
4,4'-diphenylmethane	LC50	96h	Fis	h	95.24	-134.37mg/l	Not Available
diisocyanate (MDI)	BCF	672h	Fis	h	61-15	0	7
	EC50	48h	Cri	rustacea >100mg/l		ng/l	2
	NOEC(ECx)	504h	Cre	ustacea	>=10r	mg/l	2
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96h		Fish		>2150mg/l	2
2,2'-dimorpholinodiethyl ether	EC50	48h		Crustacea		>100mg/l	2
	NOEC(ECx)	48h		Crustacea		100mg/l	2
	EC50	72h		Algae or other aquatic plants		>100mg/l	2
2,2'-diphenylmethane	Endpoint	Test Duration (hr)		Species		Value	Source
diisocyanate	NOEC(ECx)	504h		Crustacea		>=10mg/l	2
Legend:	Ecotox databas	IUCLID Toxicity Data 2. Europe Ese - Aquatic Toxicity Data 5. ECETO ion Data 8. Vendor Data					

For Isocyanate Monomers:

Environmental Fate: Isocyanates, (di- and polyfunctional isocyanates), are commonly used to make various polymers, such as polyurethanes. Polyurethanes find significant application in the manufacture of rigid and flexible foams. They are also used in the production of adhesives, elastomers, and coatings. DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

izizi i orolotolioo ana aograda	ionity .	
Ingredient	Persistence: Water/Soil	Persistence: Air
2,4'-diphenylmethane diisocyanate	нібн	нівн
4,4'-diphenylmethane diisocyanate (MDI)	LOW (Half-life = 1 days)	LOW (Half-life = 0.24 days)
2,2'-dimorpholinodiethyl ether	HIGH	HIGH
2,2'-diphenylmethane diisocyanate	HIGH	HIGH

12.3. Bioaccumulative potential

Version No: 1.2 Page **11** of **16** Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Ingredient	Bioaccumulation
diphenylmethane diisocyanate (MDI) mixed isomers	LOW (BCF = 15)
2,4'-diphenylmethane diisocyanate	HIGH (LogKOW = 5.4481)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (BCF = 15)
2,2'-dimorpholinodiethyl ether	LOW (LogKOW = -1.3122)
2,2'-diphenylmethane	HIGH (LogKOW = 5.4481)

12.4. Mobility in soil

Ingredient	Mobility
2,4'-diphenylmethane diisocyanate	LOW (KOC = 384000)
4,4'-diphenylmethane diisocyanate (MDI)	LOW (KOC = 376200)
2,2'-dimorpholinodiethyl ether	LOW (KOC = 10)
2,2'-diphenylmethane diisocyanate	LOW (KOC = 392000)

12.5. Results of PBT and vPvB assessment

	Р	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT	X	×	×
vPvB	X	×	×
PBT Criteria fulfilled?			No
vPvB			No

12.6. Endocrine Disruption Properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their

area. In some areas, certain wastes must be tracked. Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ► DO NOT recycle spilled material.
- ▶ Consult State Land Waste Management Authority for disposal.
- ▶ Neutralise spill material carefully and decontaminate empty containers and spill residues with 10% ammonia solution plus detergent or a proprietary decontaminant prior to disposal.

Waste treatment options Sewage disposal options

Not Available Not Available

SECTION 14 Transport information

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

	T
14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Class Not Applicable Subrisk Not Applicable

Version No: 1.2 Page 12 of 16 Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
	Hazard identification (Kemler)	Not Applicable
	Classification code	Not Applicable
14.6. Special precautions for	Hazard Label	Not Applicable
user	Special provisions	Not Applicable
	Limited quantity	Not Applicable
	Tunnel Restriction Code	Not Applicable

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	Not Applicable		
14.2. UN proper shipping name	Not Applicable	Not Applicable		
	ICAO/IATA Class	Not Applicable		
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	ICAO / IATA Subrisk Not Applicable		
0.000(00)	ERG Code	RG Code Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo	Packing Instructions	Not Applicable	
4361	Passenger and Cargo	Maximum Qty / Pack	Not Applicable	
	Passenger and Cargo	Limited Quantity Packing Instructions	Not Applicable	
	Passenger and Cargo	Limited Maximum Qty / Pack	Not Applicable	

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class Not Applicable IMDG Subrisk Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable		

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable No	t Applicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for	Classification code Special provisions Limited quantity	Not Applicable Not Applicable Not Applicable
user	Equipment required	Not Applicable
	Fire cones number	Not Applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.8. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
diphenylmethane diisocyanate	Not Available

Version No: 1.2 Page **13** of **16** Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Product name	Group
(MDI) mixed isomers	
2,4'-diphenylmethane diisocyanate	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Not Available
2,2'-dimorpholinodiethyl ether	Not Available
2,2'-diphenylmethane diisocyanate	Not Available

14.9. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
diphenylmethane diisocyanate (MDI) mixed isomers	Not Available
2,4'-diphenylmethane diisocyanate	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Not Available
2,2'-dimorpholinodiethyl ether	Not Available
2,2'-diphenylmethane diisocyanate	Not Available

SECTION 15 Regulatory information

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

diphenylmethane diisocyanate (MDI) mixed isomers is found on the following regulatory lists

Great Britain GB mandatory classification and labelling list (GB MCL) UK Workplace Exposure Limits (WELs).

2,4'-diphenylmethane diisocyanate is found on the following regulatory lists

Great Britain GB mandatory classification and labelling list (GB MCL) UK Workplace Exposure Limits (WELs).

4,4'-diphenylmethane diisocyanate (MDI) is found on the following regulatory lists

Great Britain GB mandatory classification and labelling list (GB MCL)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC UK Workplace Exposure Limits (WELs). Monographs - Not Classified as Carcinogenic

2,2'-dimorpholinodiethyl ether is found on the following regulatory lists

Not Applicable

2,2'-diphenylmethane diisocyanate is found on the following regulatory lists

Great Britain GB mandatory classification and labelling list (GB MCL) UK Workplace Exposure Limits (WELs).

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, -2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

UK REACH grandfathered registrations notified substances list

Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

ECHA SUMMARY

Ingredient	CAS number	Index No	ECHA Dossier
diphenylmethane diisocyanate (MDI) mixed isomers	26447-40-5	615-005-00-9	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 2; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2	GHS08; GHS06; Dgr	H315; H317; H319; H330; H334; H335; H351; H373
2	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 2; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2; STOT SE 3; Acute Tox. 4	GHS08; GHS06; Dgr	H315; H317; H319; H330; H334; H335; H351; H373; H370

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
2,4'-diphenylmethane diisocyanate	5873-54-1	615-005-00-9	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 4; Resp. Sens. 1;	GHS08; Dgr	H315; H317; H319; H332; H334;

Version No: 1.2 Page 14 of 16 Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
	STOT SE 3; Carc. 2; STOT RE 2		H335; H351; H373
2	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 4; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2	GHS08; Dgr	H315; H317; H319; H332; H334; H335; H351; H373

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
4,4'-diphenylmethane diisocyanate (MDI)	101-68-8	615-005-00-9	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 4; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2	GHS08; Dgr	H315; H317; H319; H332; H334; H335; H351; H373
2	Skin Sens. 1B; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT SE 3; Muta. 2; Acute Tox. 2; STOT RE 1; Aquatic Chronic 4	GHS08; Dgr; GHS06	H315; H317; H319; H334; H335; H351; H370; H330; H341; H372; H413
1	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 2; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2	GHS08; GHS06; Dgr	H315; H317; H319; H330; H334; H335; H351; H373
2	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 2; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2; STOT SE 3; Acute Tox. 4	GHS08; GHS06; Dgr	H315; H317; H319; H330; H334; H335; H351; H373; H370

 $Harmonisation \ Code \ 1 = The \ most \ prevalent \ classification. \ Harmonisation \ Code \ 2 = The \ most \ severe \ classification.$

Ingredient	CAS number	Index No	ECHA Dossier
2,2'-dimorpholinodiethyl ether	6425-39-4	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Eye Irrit. 2	GHS07; Wng	H319
2	Eye Irrit. 2; Skin Irrit. 2; Acute Tox. 4	GHS07; Wng; GHS09	H319; H315; H302; H413; H317

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
2,2'-diphenylmethane diisocyanate	2536-05-2	615-005-00-9	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. 4; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2	GHS08; Dgr	H315; H317; H319; H332; H334; H335; H351; H373
2	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; Carc. 2; STOT RE 2; Acute Tox. 3	GHS08; Dgr; GHS06	H315; H317; H319; H334; H335; H351; H373; H331

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (diphenylmethane diisocyanate (MDI) mixed isomers; 2,4'-diphenylmethane diisocyanate; 4,4'-diphenylmethane diisocyanate (MDI); 2,2'-dimorpholinodiethyl ether; 2,2'-diphenylmethane diisocyanate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (2,4'-diphenylmethane diisocyanate; 2,2'-dimorpholinodiethyl ether; 2,2'-diphenylmethane diisocyanate)
Vietnam - NCI	Yes
Russia - FBEPH	No (2,2'-diphenylmethane diisocyanate)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	14/02/2023
Initial Date	14/02/2023

Version No: **1.2** Page **15** of **16** Issue Date: **14/02/2023**

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Print Date: 14/02/2023

Full text Risk and Hazard codes

H302	Harmful if swallowed.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

SDS Version Summary

Version	Date of Update	Sections Updated
0.2	14/02/2023	Hazards identification - Classification, Composition / information on ingredients - Ingredients, Physical and chemical properties - Physical Properties

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

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Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Sensitisation (Respiratory) Category 1, H334	Minimum classification
Specific Target Organ Toxicity - Repeated Exposure Category 2, H373	Calculation method
Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3 , H335	Minimum classification

Version No: 1.2 Page 16 of 16 Issue Date: 14/02/2023 Print Date: 14/02/2023

Woodstikk PU Rapid Gel D4 Polyurethane Adhesive

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Skin Corrosion/Irritation Category 2, H315	Minimum classification
Serious Eye Damage/Eye Irritation Category 2, H319	Minimum classification
Sensitisation (Skin) Category 1, H317	Calculation method
Carcinogenicity Category 2, H351	Calculation method

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