

TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
Product identifier: 10673211 - RubberBond PU Insulation Adhesive 22L Canister					
Other means of identification:					
Not relevant					
Relevant identified uses of the substance or mixture and uses advised against:					
Relevant uses (Professional users): Adhesive Relevant uses (Industrial user): Adhesive For Professional users/Industrial user only. Uses advised against: All uses not specified in this section or in section 7.3					
Details of the supplier of the safety data sheet:					
RubberBond Sandswood House, Hillbottom Road, Sands Industrial Estate, HP12 4HJ High Wycombe - Buckinghamshire - United Kingdom Phone: +44 (0) 1494 448 792 enq@rubberbond.co.uk www.rubberbond.co.uk/					
Emergency telephone number: +44 (0) 1494 448792 (Monday-Thursday 8.30am-5.30pm, 9.30am - 4.30pm Friday GMT)					
TION 2: HAZARDS IDENTIFICATION					
Classification of the substance or mixture:					
GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567): Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567). Acute Tox. 4: Acute inhalation toxicity, Category 4, H332 Aerosol 1: Flammable aerosols, Category 1, H222 Aerosol 1: Pressurised container: May burst if heated., H229 Carc. 2: Carcinogenicity, Category 2, H351 Eye Irrit. 2: Eye irritation, Category 2, H319 Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317 STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335 Label elements: GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567): Danger					
Hazard statements: Acute Tox. 4: H332 - Harmful if inhaled. Aerosol 1: H222 - Extremely flammable aerosol. Aerosol 1: H229 - Pressurised container: May burst if heated. Carc. 2: H351 - Suspected of causing cancer. Eye Irrit. 2: H319 - Causes serious eye irritation. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure. STOT SE 3: H335 - May cause respiratory irritation.					



SECTION 2: HAZARDS IDENTIFICATION (continued) P201: Obtain special instructions before use. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P260: Do not breathe spray P261: Avoid breathing spray P264: Wash thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear. P284: Wear respiratory protection. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P314: Get medical advice/attention if you feel unwell. P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively. Supplementary information: EUH204: Contains isocyanates. May produce an allergic reaction. Additional Labelling: As from 24 August 2023 adequate training is required before industrial or professional use. Additional labeling: RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product. RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. RCH004c This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. 2.3 Other hazards: Product does not meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

	Identification	Chemical name/Classification	Concentration		
CAS: EC: REACH:	26447-40-5 247-714-0 01-2119457015-45- XXXX	Methylenediphenyl diisocyanate Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger	40 - <50 %		
CAS: EC: REACH:	6425-39-4 229-194-7 01-2119969278-20- XXXX	2,2'-dimorpholinyldiethyl ether Eye Irrit. 2: H319 - Warning	5 - <10 %		
CAS: EC: REACH:	3033-62-3 221-220-5 01-2119972935-21- XXXX	N,N,N´,N´-tetramethyl-2,2´-oxybis(ethylamine) Acute Tox. 3: H311; Acute Tox. 4: H302+H332; Eye Dam. 1: H318; Skin Corr. 1B: H314; EUH071 - Danger	0.1 - <1 %		
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Other information:

10673211 - RubberBond PU Insulation Adhesive 22L Canister

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Specific concentration limit
Methylenediphenyl diisocyanate	% (w/w) >=5: Skin Irrit. 2 - H315
CAS: 26447-40-5	% (w/w) >=5: Eye Irrit. 2 - H319
	% (w/w) >=0.1: Resp. Sens. 1 - H334
	% (w/w) >=5: STOT SE 3 - H335

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
Methylenediphenyl diisocyanate	LD50 oral	Not relevant	
CAS: 26447-40-5	LD50 dermal	Not relevant	
EC: 247-714-0	LC50 inhalation mist	Not relevant	
N,N,N´,N´-tetramethyl-2,2´-oxybis(ethylamine)	LD50 oral	708 mg/kg	Rat
CAS: 3033-62-3	LD50 dermal	300 mg/kg	
EC: 221-220-5	LC50 inhalation mist	4500 mg/L	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

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SECTION 5: FIREFIGHTING MEASURES (continued)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

B.- General conditions for storage

Store in a cool, dry, well-ventilated location

Avoid sources of heat

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):



SECTION 7: HANDLING AND STORAGE (continued)

See Section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Methylenediphenyl diisocyanate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 26447-40-5	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 247-714-0	Inhalation	Not relevant	0.1 mg/m ³	Not relevant	0.05 mg/m ³
2,2´-dimorpholinyldiethyl ether	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 6425-39-4	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 229-194-7	Inhalation	Not relevant	Not relevant	7.28 mg/m ³	Not relevant
N,N,N´,N´-tetramethyl-2,2´-oxybis(ethylamine)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 3033-62-3	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 221-220-5	Inhalation	Not relevant	Not relevant	0.16 mg/m ³	0.08 mg/m ³

DNEL (General population):

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Methylenediphenyl diisocyanate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 26447-40-5	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 247-714-0	Inhalation	Not relevant	0.05 mg/m³	Not relevant	0.025 mg/m ³
2,2'-dimorpholinyldiethyl ether	Oral	Not relevant	Not relevant	0.5 mg/kg	Not relevant
CAS: 6425-39-4	Dermal	Not relevant	Not relevant	0.5 mg/kg	Not relevant
EC: 229-194-7	Inhalation	Not relevant	Not relevant	1.8 mg/m ³	Not relevant
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	Oral	Not relevant	Not relevant	0.047 mg/kg	Not relevant
CAS: 3033-62-3	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 221-220-5	Inhalation	Not relevant	Not relevant	0.041 mg/m ³	0.013 mg/m ³

PNEC:

Identification				
Methylenediphenyl diisocyanate	STP	1 mg/L	Fresh water	1 mg/L
CAS: 26447-40-5	Soil	1 mg/kg	Marine water	0.1 mg/L
EC: 247-714-0	Intermittent	10 mg/L	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant
2,2´-dimorpholinyldiethyl ether	STP	100 mg/L	Fresh water	0.1 mg/L
CAS: 6425-39-4	Soil	1.58 mg/kg	Marine water	0.01 mg/L
EC: 229-194-7	Intermittent	1 mg/L	Sediment (Fresh water)	8.2 mg/kg
	Oral	0.01 g/kg	Sediment (Marine water)	0.82 mg/kg
N,N,N´,N´-tetramethyl-2,2´-oxybis(ethylamine)	STP	7.2 mg/L	Fresh water	0.023 mg/L
CAS: 3033-62-3	Soil	0.007 mg/kg	Marine water	0.002 mg/L
EC: 221-220-5	Intermittent	0.23 mg/L	Sediment (Fresh water)	0.099 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.01 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.11 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
*	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011		DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 15.99 % weight

V.O.C. density at 20 °C:

175.89 kg/m3 (175.89 g/L)

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SEC	TION 9: PHYSICAL AND CHEMICAL PROPER	RTIES
9.1	Information on basic physical and chemical prope	erties:
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Aerosol
	Appearance:	Not relevant *
	Colour:	Green
	Odour:	Characteristic
	Odour threshold:	Not relevant *
	Volatility:	
	Boiling point at atmospheric pressure:	Not relevant *
	Vapour pressure at 20 ºC:	Not relevant *
	Vapour pressure at 50 °C:	<300000 Pa (300 kPa)
	Evaporation rate at 20 °C:	Not relevant *
	Product description:	
	Density at 20 °C:	1100 kg/m³
	Relative density at 20 °C:	Not relevant *
	Dynamic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 40 °C:	Not relevant *
	Concentration:	Not relevant *
	pH:	Not relevant *
	Vapour density at 20 °C:	Not relevant *
	Partition coefficient n-octanol/water 20 °C:	Not relevant *
	Solubility in water at 20 °C:	Not relevant *
	Solubility properties:	Not relevant *
	Decomposition temperature:	Not relevant *
	Melting point/freezing point:	Not relevant *
	Recipient pressure:	Not relevant *
	Flammability:	
	Flash Point:	Not relevant *
	Flammability (solid, gas):	Not relevant *
	Autoignition temperature:	Not relevant *
	Lower flammability limit:	-4 % Volume
	Upper flammability limit:	-20.2 % Volume
	Particle characteristics:	
	Median equivalent diameter:	Not relevant *
9.2	Other information:	
	Information with regard to physical hazard classe	
	Explosive properties:	Not relevant * Not relevant *
	Oxidising properties: Corrosive to metals:	Not relevant *
	Heat of combustion:	Not relevant *
		Not relevant *
	Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	
	*Not relevant due to the nature of the product, not providing inform	nation property of its hazards
	Not recevant due to the nature of the product, not providing inform	חמוטה פוספורע טו ווש המבמועש.

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	Surface tension at 20 °C:		Not relevant *					
	Refraction index:		Not relevant *					
	*Not relevant due to the nature o	of the product, not providing in	formation property of its hazards.					
SEC	TION 10: STABILITY AN	ND REACTIVITY						
0.1	Reactivity:							
10.2	 No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 Safety Data Sheet. 2 Chemical stability: 				litions. See section 7 from			
	Chemically stable under the indicated conditions of storage, handling and use.							
	Chemically stable under th	e indicated conditions o	f storage, handling and use.					
0.3	Possibility of hazardous		f storage, handling and use.					
0.3	Possibility of hazardous	reactions:	f storage, handling and use. ns that lead to excessive terr		re not expected.			
10.3 10.4	Possibility of hazardous	reactions:			re not expected.			
	Possibility of hazardous Under the specified conditi Conditions to avoid:	reactions: ons, hazardous reactior	as that lead to excessive terr		re not expected.			
	Possibility of hazardous Under the specified conditi	reactions: ons, hazardous reactior	ns that lead to excessive terr		re not expected.			
	Possibility of hazardous Under the specified conditi Conditions to avoid: Applicable for handling and	reactions: ons, hazardous reactior d storage at room tempe	as that lead to excessive terr	nperatures or pressure ar				
	Possibility of hazardous Under the specified conditi Conditions to avoid: Applicable for handling and Shock and friction	reactions: ions, hazardous reaction d storage at room tempe Contact with air	erature:	nperatures or pressure an Sunlight	Humidity			
0.4	Possibility of hazardous Under the specified conditi Conditions to avoid: Applicable for handling and Shock and friction Not applicable	reactions: ions, hazardous reaction d storage at room tempe Contact with air	erature:	nperatures or pressure an Sunlight	Humidity			

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

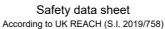
- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

IARC: Not relevant

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- E- Sensitizing effects:
 - Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification		Acute toxicity		
Methylenediphenyl diisocyanate	LD50 oral	5100 mg/kg	Rat	
CAS: 26447-40-5	LD50 dermal	5100 mg/kg	Rabbit	
EC: 247-714-0	LC50 inhalation dust	1.5 mg/L		
2,2'-dimorpholinyldiethyl ether	LD50 oral	2025 mg/kg	Rat	
CAS: 6425-39-4	LD50 dermal	3038 mg/kg	Rabbit	
EC: 229-194-7	LC50 inhalation vapou	ur >20 mg/L		
N,N,N´,N´-tetramethyl-2,2´-oxybis(ethylamine)	LD50 oral	708 mg/kg	Rat	
CAS: 3033-62-3	LD50 dermal	300 mg/kg		
EC: 221-220-5	LC50 inhalation vapou	ur 11 mg/L		

Only the physical form mist can occur during any reasonably expected use of the product, including when the product is used to produce a new product.

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	LC50	131 mg/L (96 h)	Danio rerio	Fish
CAS: 3033-62-3	EC50	102 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	BOD5	Not relevant	Concentration	400 mg/L
CAS: 3033-62-3	COD	Not relevant	Period	28 days
EC: 221-220-5	BOD5/COD	Not relevant	% Biodegradable	10 %

12.3 Bioaccumulative potential:

Substance-specific information:



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification Bioaccumulation potential		
2,2'-dimorpholinyldiethyl ether	BCF	3
CAS: 6425-39-4	Pow Log	
EC: 229-194-7	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2,2'-dimorpholinyldiethyl ether	Koc	786	Henry	2E-9 Pa ⋅m³/mol
CAS: 6425-39-4	Conclusion	Low	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Hazardous

Type of waste:

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP7 Carcinogenic, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

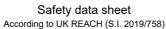
UK legislation: The Waste (England & Wales) Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023

with regard	10 ADR 202	23 and RID 2023:	
	14.1	UN number:	UN3501
J. J	14.2	UN proper shipping name:	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
	14.3	Transport hazard class(es):	2
		Labels:	2.1
2	14.4	Packing group:	N/A
	14.5	Environmental hazards:	No
	14.6	Special precautions for user	
		Tunnel restriction code:	B/D
		Physico-Chemical properties:	see section 9
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Not relevant
Transport o	f dangerou	s goods by sea:	
With regard	to IMDG 41	-22:	





SECTION 14: TRANSP	PORT	INFORMATION (continued)	
1	14.2	UN number: UN proper shipping name: Transport hazard class(es): Labels:	UN3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. 2.1 2.1
1	14.5	Packing group: Marine pollutant: Special precautions for user	N/A No
•		Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	274, 362 F-H, S-Q see section 9 0 Not relevant
		Transport in bulk according to Annex II of Marpol and the IBC Code:	Not relevant
Transport of dang With regard to IATA	-	• •	
	14.1 14.2 14.3 14.4 14.5	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user	UN3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. 2.1 2.1 N/A No
1	14.7	Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code:	see section 9 Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

The Control of Major Accident Hazards Regulations 2015:

Section	Description		Upper-tier requirements		
P3a	FLAMMABLE AEROSOLS 150 50				
Restrictions btc): Contains mo irst-time sale provisions of Shall not be ornamenta and ashtrays —tricks and j —games for Contains mo substances of a) the conce employed en prior to the u 2. Shall not b and professio (a) the conce	to commercialisation and the use of certain dangerous substances and mixture re than 0.1 % of Methylenediphenyl diisocyanate by weight. This product may not be to the general public after 27th December 2010 unless the packaging contains prote Regulation (EU) 2016/425. used in: al articles intended to produce light or colour effects by means of different phases, for s,	es (Annex XVII distributed in its ective gloves me example in orna nental aspects. r own, as a const c, or (b) the emplo the safe use of d nces or in mixture c, or (b) the suppl	500 UK REACH, present form for eting the mental lamps ituent in other over or self- isocyanates es for industrial ier ensures that		



SECTION 15: REGULATORY INFORMATION (continued)

these tasks.
4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation
exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other
appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety
and health with competence acquired by relevant vocational training. That training shall cover as a minimum:
(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).
(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:
— handling open mixtures at ambient temperature (including foam tunnels)
— spraying in a ventilated booth
— application by roller
— application by brush
— application by dipping and pouring
- mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore
— cleaning and waste
— any other uses with similar exposure through the dermal and/or inhalation route (a) the training elements is pointed (a) (b) and (a) of programs E for the following users
(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
 — handling incompletely cured articles (e.g. freshly cured, still warm) — foundry applications
— maintenance and repair that needs access to equipment
— open handling of warm or hot formulations (> 45 °C)
- spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy
(e.g. foams, elastomers)
— and any other uses with similar exposure through the dermal and/or
inhalation route.
5. Training elements:
(a) general training, including on-line training, on:
— chemistry of diisocyanates
— toxicity hazards (including acute toxicity)
— exposure to diisocyanates
— occupational exposure limit values
— how sensitisation can develop
— odour as indication of hazard
 importance of volatility for risk viscosity, temperature, and molecular weight of diisocyanates
— personal hygiene
 — personal protective equipment needed, including practical instructions for its correct use and its limitations
- risk of dermal contact and inhalation exposure
— risk in relation to application process used
— skin and inhalation protection scheme
— ventilation
— cleaning, leakages, maintenance
— discarding empty packaging
— protection of bystanders
— identification of critical handling stages
— specific national code systems (if applicable)
— behaviour-based safety
 — certification or documented proof that training has been successfully completed (b) intermediate level training including on line training, on:
(b) intermediate level training, including on-line training, on: — additional behaviour-based aspects
— maintenance
- management of change
— evaluation of existing safety instructions
— risk in relation to application process used
- certification or documented proof that training has been successfully completed
(c) advanced training, including on-line training, on:
— any additional certification needed for the specific uses covered
— spraying outside a spraying booth
— open handling of hot or warm formulations (> 45 $^\circ$ C)
 certification or documented proof that training has been successfully completed
6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate.
Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s),
as long as the minimum requirements set out in paragraphs 4 and 5 are met.
7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses
pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and
design.
8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The
training shall be renewed at least every five years.
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- CONTINUED ON NEXT PAGE -



SECTION 15: REGULATORY INFORMATION (continued)

9. Member States shall include in their reports pursuant to Article 117(1) the following information:

(a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law

(b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates

(c) national exposure limits for diisocyanates, if there are any

(d) information about enforcement activities related to this restriction.

10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

The Aerosol Dispensers Regulations 2009

The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019: SCHEDULE 13 -Amendment of the Aerosol Dispensers Regulations 2009

The Product Safety and Metrology etc. (Amendment etc.) (UK(NI) Indication) (EU Exit) Regulations 2020

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

H222: Extremely flammable aerosol.

H332: Harmful if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H335: May cause respiratory irritation.

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

H229: Pressurised container: May burst if heated.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Acute Tox. 3: H311 - Toxic in contact with skin.

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Acute Tox. 4: H332 - Harmful if inhaled.

Carc. 2: H351 - Suspected of causing cancer.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:



SECTION 16: OTHER INFORMATION (continued)
Aerosol 1: Calculation method Acute Tox. 4: Calculation method Skin Irrit. 2: Calculation method Eye Irrit. 2: Calculation method Resp. Sens. 1: Calculation method Skin Sens. 1: Calculation method Carc. 2: Calculation method STOT SE 3: Calculation method STOT RE 2: Calculation method Aerosol 1: Calculation method
Advice related to training: Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources:
http://echa.europa.eu http://eur-lex.europa.eu
Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.