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Experts in Rubber

HypaBond 5L Part B Material Safety Datasheet

Product Code: RC13101

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product name	HypaBond 5L Part B
Product substance/mixture	Mixture

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

Recommended use	Hardener.
Uses advised against	None known.
Reason why uses advised against	Restricted substance per REACH Annex XVII

1.3 Details of the supplier of the safety datasheet

Company name and address	The Rubber Company Limited Unit 21 Romsey Industrial Estate Greatbridge Road, Romsey, Hampshire, SO51 0HR United Kingdom
Telephone number	+44 (0) 1794 513184
Email address	sales@therubbercompany.com

1.4 Emergency telephone number

National response centre	National Poisons Information Service (Birmingham Centre) City Hospital, Dudley Road, Birmingham, United Kingdom
Emergency telephone number	+00 448 706 006 266 or NHS - 111

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Acute toxicity - inhalation (vapours)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Specific target organ toxicity - single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Flammable liquids	Category 2 - (H225)

2.2 Label elements

Contains Ethyl acetate, m-TDI oligomers, isocyanurate, Benzene, 2,4-diisocyanato-1-methyl-, homopolymer.

Hazard pictograms

GHS02 GHS07 GHS08

Signal word	Danger
Hazard statements	H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H336: May cause drowsiness or dizziness. H225: Highly flammable liquid and vapour.
EU specific hazard statements	EUH066: Repeated exposure may cause skin dryness or cracking.

Precautionary statements - EU (§28, 1272/2008)	P280: Wear protective gloves and or eye/face 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. P342 + P311 - If experiencing respiratory symptoms: Call a poison centre or doctor/physician. P501 - Dispose of contents/container to an approved waste disposal plant.
Special provisions concerning the labelling of certain mixtures	Reserved for industrial and professional use. As from 24 August 2023 adequate training is required before industrial or professional use.
Additional information	This product requires tactile warnings if supplied to the general public.

2.3 Other hazards

In use, may form flammable/explosive vapour-air mixture.

PBT & vPvB	This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Section 3: Composition/Information on Ingredients

3.1 Substances

None applicable.

3.2 Mixtures

Chemical Name	EC No. (EU Index No)	CAS No.	% w/w	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific Concentration Limit (SCL)	REACH Registration No.
Ethyl acetate	(607-022-00-5) 205-500-4	141-78-6	40 - <80	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	01-2119475103-46-XXXX
m-TDI oligomers, isocyanurate	938-708-5	--	20 - 25	25 Skin Sens. 1B	-	01-2119950331-47-XXXX
Benzene, 2,4-diisocyanato-1-methyl-, homopolymer	-	26006-20-2	10 - <20	Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	-	[7]
m-tolylidene diisocyanate	(615-006-00-4) 247-722-4	26471-62-5	0.1 - <0.5	Acute Tox. 1 (H330) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	Resp. Sens. 1 :: C>=0.1%	01-2119454791-34-XXXX

NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration.

Full text of H- and EUH-phrases: see section 16
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Notes - See section 16 for more information

Chemical Name	Notes
m-tolylidene diisocyanate - 26471-62-5	C

Section 4: First Aid Measures

4.1 Description of first aid measures

General advice	Show this safety datasheet to the doctor in attendance.
Inhalation	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapours or mists.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Difficulty in breathing.

4.3 Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.

Section 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	No information available.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitiser. May cause sensitisation by inhalation. May cause sensitisation by skin contact.
Hazardous combustion products	Carbon oxides. Carbon monoxide. Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanates.

5.3 Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapours or mists.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2 Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Methods of containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children.
Recommended storage temperature	Keep at temperatures between 5°C and 25°C.

7.3 Specific end use(s)

Specific use(s)	Hardener.
Risk Management Methods (RMM)	The information required is contained in this Safety Datasheet.
Other information	Observe technical data sheet.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Exposure limits

Chemical Name	European Union	United Kingdom
Ethyl acetate 141-78-6	TWA: 734 mg/m³ TWA: 200 ppm STEL: 1468 mg/m³ STEL: 400 ppm	TWA: 734 mg/m³ TWA: 200 ppm STEL: 1468 mg/m³ STEL: 400 ppm
m-tolylidene diisocyanate 26471-62-5	-	TWA: 0.02 mg/m³ STEL: 0.07 mg/m³ Sen+

Chemical Name	European Union	Ireland	United Kingdom
m-tolylidene diisocyanate 26471-62-5	-	µmol/mol Creatinine (urine - urinary Diamine post task)	-

Derived No Effect Level (DNEL) No information available.

Derived No Effect Level (DNEL)			
Ethyl acetate (141-78-6)			
Type	**Exposure route**	**Derived No Effect Level (DNEL)**	**Safety factor**
Worker - Long term Systemic health effects	Inhalation	1468 mg/m³	-
Worker - Short term Systemic health effects	Inhalation	734 mg/m³	-
Worker - Long term Local health effects	Inhalation	1468 mg/m³	-
Worker - Short term Local health effects	Inhalation	734 mg/m³	-
Worker - Long term Systemic health effect	Dermal	63 mg/kg bw/d	-

m-TDI oligomers, isocyanurate (--)			
Type	**Exposure route**	**Derived No Effect Level (DNEL)**	**Safety factor**
Worker - Long term Local health effects	Inhalation	0.345 mg/m³	-

m-tolylidene diisocyanate (26471-62-5)			
Type	**Exposure route**	**Derived No Effect Level (DNEL)**	**Safety factor**
Worker - Long term Systemic health effects	Inhalation	0.035 mg/m³	-
Worker - Short term Systemic health effects	Inhalation	0.14 mg/m³	-
Worker - Long term Local health effects	Inhalation	0.035 mg/m³	-
Worker - Short term Local health effects	Inhalation	0.14 mg/m³	-

Derived No Effect Level (DNEL)			
Toluene (108-88-3)			
Type	**Exposure route**	**Derived No Effect Level (DNEL)**	**Safety factor**
Consumer - Short term Systemic health effects	Inhalation	734 mg/m³	-
Consumer - Long term Systemic health effects	Inhalation	367 mg/m³	-
Consumer - Short term Local health effects	Inhalation	734 mg/m³	-
Consumer - Long term Local health effects	Inhalation	367 mg/m³	-
Consumer - Long term Systemic health effects	Dermal	37 mg/kg bw/d	-
Consumer - Long term Systemic health effects	Oral	4.5 mg/kg bw/d	-

Predicted No Effect Level (PNEC)

Predicted No Effect Concentration (PNEC)	
Ethyl acetate (141-78-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.24 mg/L
Marine water	0.024 mg/L
Freshwater sediment	1.15 mg/kg
Marine sediment	0.115 mg/kg
Soil	0.148 mg/kg
Micro-organisms in sewage treatment	650 mg/L

m-TDI oligomers, isocyanurate (--)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.1 mg/L
Marine water	0.01 mg/L
Sewage treatment plant	0.1 mg/L
Freshwater sediment	3302 mg/kg dry weight
Marine sediment	330 mg/kg dry weight
Soil	658 mg/kg dry weight

Predicted No Effect Concentration (PNEC)	
Toluene (108-88-3)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.68 mg/L
Marine water	0.68 mg/L
Sewage treatment plant	13.61 mg/L
Freshwater sediment	16.39 mg/kg dry weight
Marine sediment	16.39 mg/kg dry weight
Soil	2.89 mg/kg dry weight

m-tolylidene diisocyanate (26471-62-5)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.013 mg/L
Marine water	0.00125 mg/L
Micro-organisms in sewage treatment	>1 mg/L
Soil	>1 mg/kg dry weight

8.2 Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

Personal protective equipment	
Eye/face protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature.
Skin and body protection	Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.
Respiratory protection	In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Recommended filter type	Organic gases and vapours filter conforming to EN 14387.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Appearance	Dispersion.
Colour	Colourless.
Odour	Solvent.
Odour threshold	No data available.
Initial boiling point and boiling range	48°C

Property	**Values**	**Remarks /Method**
Melting point / freezing point	No data available.	None known.
Initial boiling point and boiling range	77°C	-
Flammability	No applicable for liquids.	-
Flammability Limit in Air		None known.
- Upper flammability or explosive limits	11.5%	-
- Lower flammability or explosive limits	0.9%	-
Flash point	-4°C	DIN 51755 Part 1

Auto-ignition temperature	460 °C	-
Decomposition temperature	-	None known.
pH	No data available.	Not applicable. Insoluble in water.
- pH (as aqueous solution)	No data available.	None known.
Kinematic viscosity	No data available.	None known.
Dynamic viscosity	3 mPa @20 °C	-
Water solubility	Immiscible in water.	-
Solubility(ies)	No data available.	None known.
Partition coefficient	No data available.	None known.
Vapour pressure	97 hPa @20 °C	-
Relative density	No data available.	None known.
- Bulk Density	No data available.	-
- Density	1.01 g/cm³	None known.
Relative vapour density	No data available.	None known.
Particle characteristics	-	-
- Particle Size	No information available.	-
- Particle Size Distribution	No information available.	-

9.2 Other information

Solid content	No information available.
VOC content	No data available.

9.2.1 Information with regards to physical hazard classes

No applicable.

9.2.2 Other safety characteristics

No information available.

Section 10: Stability and Reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stability	Stable under normal conditions.
Explosion data	
- Sensitivity to mechanical impact	None.
- Sensitivity to static discharge	Yes.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
Hazardous polymerisation	Polymerisation can occur.

10.4 Conditions to avoid

Heat, flames and sparks. Excessive heat.

10.5 Incompatible materials

None known based on information supplied

10.6 Hazardous decomposition products

None under normal use conditions.

Section 11: Toxicology Information

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

Information on likely routes exposed

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons (based on components). May cause irritation of respiratory tract. May cause drowsiness or dizziness. Harmful by inhalation.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons (based on components). May cause sensitisation by skin contact. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, light-headedness, chest pain, muscle pain, or flushing. Coughing and/or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	>5000 mg/kg
ATEmix (dermal)	>5000 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	>5 mg/L

Component information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl acetate	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus cuniculus) > 20 ml/kg (Oryctolagus cuniculus)	LC0 29.3 mg/L air
m-TDI oligomers, isocyanurate	>5000 mg/Kg (Rattus) (OECD 402)	-	LC50 (4h) > 1.839 mg/L (Rattus) (OECD 403)
Benzene, 2,4-diisocyanato-1-methyl-, homopolymer	LD50 >5000 mg/Kg (Rattus)	-	LC50 (4h) dust/mist >3.003 mg/L Rat
m-tolylidene diisocyanate	=3060 mg/kg (Rattus)	= 10000 mg/kg (Oryctolagus cuniculus)	=0.107 mg/L 4h (Vapour) (Rattus) (OECD 403) =0.48 mg/L 1h (Vapour) (Rattus) (OECD 403)

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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Ethyl acetate (141-78-6)			
Method	**Species**	**Exposure Route**	**Results**
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	No sensitisation responses were observed.

m-TDI oligomers, isocyanurate (--)			
Method	**Species**	**Exposure Route**	**Results**
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse	Dermal	Sensitising.

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m-tolylidene diisocyanate (26471-62-5)			
Method	**Species**	**Exposure Route**	**Results**
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse	Dermal	Sensitising.

Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	European Union
m-tolylidene diisocyanate	Carc 2

Reproductive toxicity Based on available data, the classification criteria are not met.
STOT - single exposure May cause drowsiness or dizziness
STOT - repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No information available.

11.2.2 Other information

Other adverse effects No information available.

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to micro-organisms	Crustacea	M-Factor	M-Factor (long-term)
Ethyl acetate 141-78-6	EC50: =3300 mg/L (48h, Desmodesmus subspicatus)	LC50: =484 mg/L (96h, Oncorhynchus mykiss) LC50: 352-500 mg/L (96h, Oncorhynchus mykiss) LC50: 220-250 mg/L (96h, Pimephales promelas	EC50: = 1180 mg/L 5 min EC50: = 1500 mg/L 15 min EC50: = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50: =560 mg/L (48h, Daphnia magna)	-	-

12.2 Persistence and degradability

No information available.

m-TDI oligomers, isocyanurate (--)			
Method	**Exposure Time**	**Value**	**Results**
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	4%	Not readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulation
Component Information

Chemical Name	Partition coefficient
Ethyl acetate	0.73
m-tolylidene diisocyanate	3.43

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical Name	PBT and vPvB assessment
Ethyl acetate	The substance is not PBT / vPvB PBT assessment does not apply.
m-tolylidene diisocyanate	The substance is not PBT / vPvB

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Waste codes / waste designations according to EWC 16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.

European Waste Catalogue	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances. 15 01 10*: Packaging containing residues of or contaminated by dangerous substances.
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: Transport Information

Note: The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

Land Transport (ADR/RID)

14.1 UN number or ID number	UN1866
14.2 UN proper shipping name	Resin solution
14.3 Transport hazard classes	3
- Labels	3
14.4 Packing group	II
- Description	UN1866, Resin solution, 3, II, (D/E)
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
- Special precautions	640C
- Classification code	F1
- Tunnel restriction code	D/E
- Limited quantity (LQ	5L
- ADR hazard ID (Kemmler Number)	33

IMDG

14.1 UN number or ID number	UN1866
14.2 UN proper shipping name	Resin solution
14.3 Transport hazard classes	3
14.4 Packing group	II
- Description	UN1866, Resin solution, 3, II, (-4°C c.c.)
14.5 Marine pollutant	NP

14.6 Special precautions for user	
- Special provisions	None
- Limited quantity (LQ)	5L
- EmS-No.	F-E, S-E
14.7 Maritime transport in bulk according to IMO instruments	
- Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable.

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN1866
14.2 UN proper shipping name	Resin solution
14.3 Transport hazard classes	3
14.4 Packing group	II
- Description	UN1866, Resin solution, 3, II
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
- Special provisions	A3
- Limited quantity (LQ)	1L
- ERG code	3L

Section 15: Regulatory Information

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work.

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical Name	CAS No.	Restricted substance per REACH Annex XVII
Diisocyantes	--	74.
m-tolylidene diisocyanate	26471-62-5	75. 74.

74 If product supplied to the industrial or professional users with total monomeric diisocyanates ≥ 0.1%, then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use"**.**

Substance subject to authorisation per REACH Annex XIV
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV).

Dangerous substance category per Seveso Directive (2012/18/EU)
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

Persistent Organic Pollutants
Not applicable

National regulations

15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa.	No
Chemical Safety Assessment has been carried out for this mixture	

Section 16: Other Information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

Hazard statements	EUH066: Repeated exposure may cause skin dryness or cracking. H225: Highly flammable liquid and vapour. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H330: Fatal if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H351: Suspected of causing cancer. H412: Harmful to aquatic life with long lasting effects.

Notes relating to the identification, classification and labelling of substances

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.
In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers

Legend

TWA	TWA (time-weighted average).
STEL	STEL (Short Term Exposure Limit).
Ceiling	Ceiling Limit Value.
*	Skin designation.
SVHC	Substance(s) of Very High Concern.

PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals.
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals.
STOT RE	Specific target organ toxicity - Repeated exposure.
STOT SE	Specific target organ toxicity - Single exposure.
EWC	European Waste Catalogue.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
IMDG	International Maritime Dangerous Goods (IMDG).
IATA	International Air Transport Association (IATA).
RID	Regulations concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data

No information available.

Prepared By	Product Safety & Regulatory Affairs
Revision date	19-June-2023
Indication of changes	
Revision note	SDS sections updated, , 2, 3, 8, 11, 12, 16.
Training Advice	Provide adequate information, instruction, and training for operator AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE INDUSTRIAL OR PROFESSIONAL USE For further information, please contact: https://www.safeusediisocyanates.eu/
Further information	No information available.

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended).

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