

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 100002129 Issue date: 20/02/2015 Revision date: 04/03/2024 Supersedes version of: 07/05/2022 Version: 4.1

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

1.1. Product identifier

Product form Trade name : Mixture : Joint & Joist D4 Wood Adehesive Trade

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

1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Consumer use,Professional use : adhesives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Soudal N.V. Everdongenlaan 18-20 2300 Turnhout Belgium T +32 14 42 42 31, F +32 14 42 65 14 sds@soudal.com, www.Soudal.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity – Single exposure, Category 3,	H335
Respiratory tract irritation	
Specific target organ toxicity – Repeated exposure, Category 2 Full text of H- and EUH-statements: see section 16	2 H373

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 GHS08 Signal word (CLP) : Danger Hazard statements (CLP) H315 - Causes skin irritation. 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. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure. Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection, face protection. 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 doctor, a POISON CENTER. P405 - Store locked up. P501 - Dispose of container, contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Extra phrases Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. 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. As from 24 August 2023 adequate training is required before industrial or professional use. 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component		
4,4'-methylenediphenyl diisocyanate (101-68-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
polymethylene polyphenyl isocyanate (9016-87-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
polymethylene polyphenyl isocyanate	CAS-No.: 9016-87-9	≥ 25 – < 50	Carc. 2, H351 Resp. Sens. 1, H334 Skin Sens. 1, H317 Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) STOT RE 2, H373 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
4,4'-methylenediphenyl diisocyanate substance with national workplace exposure limit(s) (BE)	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014- 47	≥ 10 – < 25	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
reaction mass of ethylbenzene and xylene	EC-No.: 905-588-0 REACH-no: 01-2119488216- 32	≥ 5 – < 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1,5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
4,4'-methylenediphenyl diisocyanate	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014- 47	$(0,1 \le C \le 100)$ Resp. Sens. 1, H334 (5 $\le C \le 100$) Eye Irrit. 2, H319 (5 $\le C \le 100$) Skin Irrit. 2, H315 (5 $\le C \le 100$) STOT SE 3, H335	

Comments

Full text of H- and EUH-statements: see section 16

: polymethylene polyphenyl isocyanate, contains > 0.1% MDI isomers

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	 Cough. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. EXPOSURE TO HIGH CONCENTRATIONS: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Dry/sore throat.
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Irritation. May cause an allergic skin reaction. : Eye irritation.
Symptoms/effects after ingestion	 Irritation of the gastric/intestinal mucosa. AFTER INGESTION OF HIGH QUANTITIES: Central nervous system depression. Enlargement/affection of the liver.

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

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	Dry powder. Foam. Carbon dioxide.Do not use a solid water stream as it may scatter and spread fire.		
5.2. Special hazards arising from the substa	ance or mixture		
Reactivity in case of fire Hazardous decomposition products in case of fire	 Reacts with water: release of toxic/harmful substances. Hydrogen cyanide. Reacts slowly with water, generate gases (CO2) and overpressure : rupture containers. On burning: release of carbon monoxide - carbon dioxide. Nitrous fumes. 		
5.3. Advice for firefighters			
Firefighting instructions Protection during firefighting	 Cool closed containers exposed to fire with water spray. Do not allow water to enter the vessels, a violent reaction may occur. Dilute toxic gases with water spray. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: No open flames. No smoking.		
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			

For containment	: Dam up the liquid spill.
Methods for cleaning up	: Leave the product to solidify.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Keep away from naked flames/heat. Keep only in original container. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ng any incompatibilities
Storage conditions Incompatible products Incompatible materials Packaging materials	 Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Moisture. Reacts with water. Strong acids. Strong bases. Heat sources. Synthetic material.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

4,4'-methylenediphenyl diisocyanate (101-68-8)	
Belgium - Occupational Exposure Limits	
Local name 4,4'-Diisocyanate de diphénylméthane (MDI) # Difenylmethaan-4,4'-di-isocyanaat (MDI)	
OEL TWA	0,052 mg/m³
	0,005 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

reaction mass of ethylbenzene and xylene		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	442 mg/m ³	
Acute - local effects, inhalation	442 mg/m ³	
Long-term - systemic effects, dermal	212 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation 221 mg/m ³		
Long-term - local effects, inhalation	221 mg/m ³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation 260 mg/m ³		
Acute - local effects, inhalation 260 mg/m ³		
Long-term - systemic effects,oral	12,5 mg/kg bodyweight/day	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

reaction mass of ethylbenzene and xylene		
Long-term - systemic effects, inhalation	65,3 mg/m ³	
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day	
Long-term - local effects, inhalation	65,3 mg/m ³	
PNEC (Water)		
PNEC aqua (freshwater)	0,327 mg/l	
PNEC aqua (marine water)	0,327 mg/l	
PNEC aqua (intermittent, freshwater)	0,327 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	12,46 mg/kg dwt	
PNEC sediment (marine water)	12,46 mg/kg dwt	
PNEC (Soil)		
PNEC soil	2,31 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	6,58 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Measure concentrations regularly, and at the time of any change occuring in conditions likely to have consequences on workers exposure.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield. ISO 16321-1

8.2.2.2. Skin protection

Skin and body protection: Protective clothing (EN 14605 or EN 13034)

Hand protection:

Protective gloves against chemicals (EN 374)

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		EN ISO 374

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2.2.3. Respiratory protection

Respiratory protection:

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

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Colour	: brown. orange. light beige. Yellow. white.
Appearance	: Liquid.
Odour	: solvent-like.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: ≈ 80,5 °C (ISO 2719A)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1100 kg/m³ (20°C)
Relative density	: 1,1 (20°C)
Relative vapour density at 20°C	: >2
Particle characteristics	: Not applicable

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content

: < 7,5 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions. Moisture sensitive.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.3. Possibility of hazardous reactions

Reacts with water, generates gases or heat and overpressure : rupture containers. Reacts with (some) acids/bases. Reacts with (some) acids. alcohol. Amines.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

water. alcohols. Amines. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On burning: release of (highly) toxic gases/vapours.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Inhalation:dust,mist: Harmful if inhaled.	
Joint & Joist D4 Wood Adehesive Trade		
ATE CLP (dust,mist)	2,422 mg/l/4h	
4,4'-methylenediphenyl diisocyanate (101-68-	8)	
LD50 oral rat	> 2000 mg/kg bodyweight (Rat, Male / female, Read-across, Oral, 14 day(s))	
LD50 dermal rabbit	> 9400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))	
LC50 Inhalation - Rat (Dust/Mist)	0,49 mg/l/4h	
polymethylene polyphenyl isocyanate (9016-87-9)		
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)	
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)	
LC50 Inhalation - Rat	10 – 20 mg/l/4h	
LC50 Inhalation - Rat (Dust/Mist)	0,49 mg/l/4h	
LC50 Inhalation - Rat (Vapours)	0,387 mg/l/4h	
reaction mass of ethylbenzene and xylene		
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:	
Skin corrosion/irritation :	Causes skin irritation.	
4,4'-methylenediphenyl diisocyanate (101-68-8)		
рН	7 (6.8E-3 g/l, 25 °C)	
polymethylene polyphenyl isocyanate (9016-87-9)		
рН	No data available in the literature	
, ,	Causes serious eye irritation.	
4,4'-methylenediphenyl diisocyanate (101-68-	8)	
рН	7 (6.8E-3 g/l, 25 °C)	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

polymethylene polyphenyl isocyanate (9016-87-9)		
рН	No data available in the literature	
Respiratory or skin sensitisation :	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Suspected of causing cancer.	
4,4'-methylenediphenyl diisocyanate (101-68-	8)	
IARC group	3 - Not classifiable	
, , , , , , , , , , , , , , , , , , , ,	Not classified	
STOT-single exposure :	May cause respiratory irritation.	
4,4'-methylenediphenyl diisocyanate (101-68-	8)	
STOT-single exposure	May cause respiratory irritation.	
polymethylene polyphenyl isocyanate (9016-8	37-9)	
STOT-single exposure	May cause respiratory irritation.	
reaction mass of ethylbenzene and xylene		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	May cause damage to organs through prolonged or repeated exposure.	
4,4'-methylenediphenyl diisocyanate (101-68-	8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
polymethylene polyphenyl isocyanate (9016-87-9)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure (if inhaled).	
reaction mass of ethylbenzene and xylene		
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90- Day Oral Toxicity)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard :	Not classified	
4,4'-methylenediphenyl diisocyanate (101-68-8)		
Viscosity, kinematic	Not applicable (solid)	
polymethylene polyphenyl isocyanate (9016-87-9)		
Viscosity, kinematic	No data available in the literature	
reaction mass of ethylbenzene and xylene		
Viscosity, kinematic	≈ 0,76 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'	
11.2. Information on other hazards		

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

5 - 5 (-)	5 (- /		
Hazardous to the aquatic environment, short–term : Not classified (acute)			
Hazardous to the aquatic environment, long–term : Not classified (chronic) Not rapidly degradable			
polymethylene polyphenyl isocyanate (9016-	polymethylene polyphenyl isocyanate (9016-87-9)		
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)		
reaction mass of ethylbenzene and xylene			
EC50 - Crustacea [1]	> 3,4 mg/l Test organisms (species): Ceriodaphnia dubia		
LOEC (chronic)	3,16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic fish	> 1,3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'		
12.2. Persistence and degradability			
4,4'-methylenediphenyl diisocyanate (101-68-	-8)		
Persistence and degradability	Not readily biodegradable in water.		
polymethylene polyphenyl isocyanate (9016-	87-9)		
Persistence and degradability	not readily degradable in water.		
12.3. Bioaccumulative potential			
4,4'-methylenediphenyl diisocyanate (101-68	-8)		
BCF - Fish [1]	92 – 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP)		
Partition coefficient n-octanol/water (Log Pow)	4,5 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
polymethylene polyphenyl isocyanate (9016-	87-9)		
BCF - Fish [1]	268 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)		
Partition coefficient n-octanol/water (Log Pow)	10 (Calculated, KOWWIN)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
12.4. Mobility in soil			
4,4'-methylenediphenyl diisocyanate (101-68-8)			
Surface tension	No data available in the literature		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4,5 – 5,5 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Adsorbs into the soil.		
polymethylene polyphenyl isocyanate (9016-	87-9)		
Surface tension	No data available in the literature		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9,1 – 11 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Adsorbs into the soil.		
<u>i</u>			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.5. Results of PBT and vPvB assessment	
Component	
4,4'-methylenediphenyl diisocyanate (101-68-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
polymethylene polyphenyl isocyanate (9016-87-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	າຣ
13.1. Waste treatment methods	
Regional waste regulation	: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Ecological information	: Avoid release to the environment.
European List of Waste (LoW, EC 2000/532)	: 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

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number or ID n	umber	1		
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippin	g name	1		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard o	class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group		· · · · ·		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	ards	1		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	n available	11		

Overland transport

Not regulated

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Transport by sea Not regulated

5

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(a)	reaction mass of ethylbenzene and xylene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Joint & Joist D4 Wood Adehesive Trade ; polymethylene polyphenyl isocyanate ; reaction mass of ethylbenzene and xylene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	reaction mass of ethylbenzene and xylene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
56.	4,4'-methylenediphenyl diisocyanate	Methylenediphenyl diisocyanate (MDI)
56(a)	4,4'-methylenediphenyl diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate
74.	4,4'-methylenediphenyl diisocyanate	Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

VOC Directive (2004/42)

VOC content

: <7,5 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878			
8.2		Modified		

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:			
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Carc. 2	Carcinogenicity, Category 2		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
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.		
H335	May cause respiratory irritation.		
H351	Suspected of causing cancer.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H412	Harmful to aquatic life with long lasting effects.		
Resp. Sens. 1	Respiratory sensitisation, Category 1		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3 Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		

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

Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method

Safety Data Sheet (SDS), EU-2023-1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.