

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

NEXLER STYROPUK DACH

Creation date 27th November 2023
Revision date Version 1.0

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

1.1. Product identifier NEXLER STYROPUK DACH

Substance / mixture mixture

UFI DCU1-10RV-300X-QMUW

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

Mixture's intended use

In construction - polyurethane adhesive in the version with a pistol applicator, intended for fixing expanded polystyrene (EPS) and extruded polystyrene (XPS) panels to the surface of flat roofs when performing thermal insulation of roofs.

Main intended use

PC-ADH-2 Adhesives and sealants - building and construction works (except cement based adhesives)

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	NEXLER sp. z o.o.
Address	Łużycka 6, Gdynia, 81-537 Poland
Identification number (CRN)	191528483
VAT Reg No	PL5862073821
Phone	+48 58 781 45 85
E-mail	info@nexler.com
Web address	www.nexler.com

Competent person responsible for the safety data sheet

Name	NEXLER sp. z o.o.
E-mail	info@nexler.com

1.4. Emergency telephone number

National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H229, H222
Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319
Acute Tox. 4, H332
Resp. Sens. 1, H334
STOT SE 3, H335
Carc. 2, H351
Lact., H362
STOT RE 2, H373 (the respiratory system) (inhalation)
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

Most serious adverse effects on human health and the environment

Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause an allergic skin reaction. May cause harm to breast-fed children. Harmful if inhaled. May cause damage to the respiratory system through prolonged or repeated exposure if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

methylenediphenyl diisocyanate, isomers and homologues
alkanes, C14-17, chloro

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
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.
H362	May cause harm to breast-fed children.
H373	May cause damage to the respiratory system through prolonged or repeated exposure if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
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 gas/vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to by disposing in a hazardous waste receptacle.

Supplemental information

EUH204
Contains isocyanates. May produce an allergic reaction.
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.

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Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 9016-87-9 Registration number: - [REACH art. 2 (9)]	methylenediphenyl diisocyanate, isomers and homologues	40-50	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (the respiratory system) (inhalation) Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335: C ≥ 5 % Resp. Sens. 1, H334: C ≥ 0.1 %	3, 6
Index: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8 Registration number: 01-2119472128-37	dimethyl ether	<12	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2
CAS: 13674-84-5 EC: 237-158-7 Registration number: 01-2119486772-26	tris(2-chloro-1-methylethyl) phosphate	<10	Acute Tox. 4, H302	
Index: 602-095-00-X CAS: 85535-85-9 EC: 287-477-0 Registration number: 01-2119519269-33	alkanes, C14-17, chloro	<8	Lact., H362 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) EUH066	4, 5, 7
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane	4	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	isobutane	3	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	3	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1

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Notes

- 1 Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- 2 A substance for which exposure limits are set.
- 3 Substance for which biological limit values exist.
- 4 Substance of very high concern - SVHC.
- 5 Persistent, bioaccumulative and toxic or very persistent and very bioaccumulative
- 6 The use of the substance is restricted by Annex XVII of REACH Regulation
- 7 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with clean water. Provide medical treatment.

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

If inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

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5.2. Special hazards arising from the substance or mixture

Extremely flammable product, in the event of fire it may emit dangerous gases: nitrogen oxides, carbon monoxide, isocyanates and trace amounts of cyanides may be formed. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage. In the event of an ambient fire, there is a risk of pressure build-up and containers bursting.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Pressurised container: May burst if heated. Extremely flammable aerosol. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Do not spray on an open flame or other ignition source. Avoid contact during pregnancy and while nursing. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
dimethyl ether (CAS: 115-10-6)	WEL 8h	766 mg/m ³
	WEL 8h	400 ppm
	WEL 15min	958 mg/m ³
	WEL 15min	500 ppm
butane (CAS: 106-97-8)	WEL 8h	1450 mg/m ³
	WEL 8h	600 ppm
	WEL 15min	1810 mg/m ³

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United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
butane (CAS: 106-97-8)	WEL 15min	750 ppm

Biological limit values

United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Name	Parameter	Value	Tested material	Time of sampling
methylenediphenyl diisocyanate, isomers and homologues (CAS: 9016-87-9)	isocyanate-derived diamine	1 µmol/mol creatinine	Urine	End of exposure or end of shift

DNEL

alkanes, C14-17, chloro					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Dermal	28.75 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	2 mg/m ³	Chronic effects systemic		
Workers	Dermal	47.9 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	6.7 mg/m ³	Chronic effects systemic		
Consumers	Oral	0.58 mg/kg bw/day	Chronic effects systemic		

tris(2-chloro-1-methylethyl) phosphate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Dermal	4 mg/kg bw/day	Acute effects systemic		
Consumers	Inhalation	43 mg/m ³	Acute effects systemic		
Consumers	Dermal	1.04 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	0.52 mg/m ³	Chronic effects systemic		
Consumers	Oral	0.52 mg/kg bw/day	Chronic effects systemic		

PNEC

alkanes, C14-17, chloro			
Route of exposure	Value	Value determination	Source
Marine water	0.2 µg/l		
Microorganisms in sewage treatment	80 mg/l		
Freshwater sediment	13 mg/kg of dry substance of sediment		
Sea sediments	2.6 mg/kg of dry substance of sediment		

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alkanes, C14-17, chloro			
Route of exposure	Value	Value determination	Source
Soil (agricultural)	11.9 mg/kg of dry substance of soil		
Drinking water	1 µg/l		
Food chain	10 mg/kg of food		

tris(2-chloro-1-methylethyl) phosphate			
Route of exposure	Value	Value determination	Source
Drinking water	0.64 mg/l		
Marine water	0.064 mg/l		
Water (intermittent release)	0.51 mg/l		
Freshwater sediment	13.4 mg/kg of dry substance of sediment		
Sea sediments	1.34 mg/kg of dry substance of sediment		
Soil (agricultural)	1.7 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	7.84 mg/l		
Food chain	<11.6 mg/kg of food		

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
Odour	characteristic
Melting point/freezing point	not applicable
Boiling point or initial boiling point and boiling range	not applicable
Flammability	flammable
Lower and upper explosion limit	

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bottom	1.5 %
upper	10.9 %
Flash point	not applicable
Auto-ignition temperature	not applicable
dimethyl ether (CAS: 115-10-6)	226 °C
Decomposition temperature	not applicable
pH	reacts with water
Kinematic viscosity	not applicable
Solubility in water	reacts with water
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	1200-7500 hPa at 20 °C
Density and/or relative density	
Density	1.2 g/cm ³ at 20 °C
Relative vapour density	>1
Particle characteristics	applies to solids

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with nucleophiles (amines, alcohols, water, etc.)

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts exothermically with amines and alcohols, releasing CO₂ with water, which may cause pressure increase in closed containers and their bursting.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated. Avoid direct sunlight and moisture.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Harmful if inhaled.

alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>4000 mg/kg bw		Rat (Rattus norvegicus)	F/M

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>2000 mg/kg bw		Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀	OECD 402	>9400 mg/kg bw		Rat (Rattus norvegicus)	F/M

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methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	OECD 403	0.31 mg/l of air	4 hours	Rat (<i>Rattus norvegicus</i>)	F/M

tris(2-chloro-1-methylethyl) phosphate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		630-2000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	
Inhalation	LC ₅₀		>7 mg/l	4 hours	Rat (<i>Rattus norvegicus</i>)	
Dermal	LD ₅₀		>2000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	

Skin corrosion/irritation

Causes skin irritation.

alkanes, C14-17, chloro

Route of exposure	Result	Method	Exposure time	Species
Dermal	Slightly irritating	OECD 404	4 hours	Rabbit

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Result	Method	Exposure time	Species
Dermal	Irritating	OECD 404	4 hours	Rabbit

Serious eye damage/irritation

Causes serious eye irritation.

alkanes, C14-17, chloro

Route of exposure	Result	Method	Exposure time	Species
Eye	Slightly irritating			Rabbit

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Result	Method	Exposure time	Species
Eye	Slightly irritating	OECD 405		Rabbit

Respiratory or skin sensitisation

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

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	
Inhalation	Sensitizing			Guinea-pig (<i>Cavia aperea f. porcellus</i>)	F

Germ cell mutagenicity

Based on the available data, the criteria for classification of the mixture are not met.

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Carcinogenicity

Suspected of causing cancer.

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Inhalation (aerosols)		OECD 453	6 mg/m ³	2 years	Tumor formation	Rat (Rattus norvegicus)	F/M

Reproductive toxicity

May cause harm to breast-fed children.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Parameter	Value	Result	Species	Sex
Inhalation			Irritating		

Toxicity for specific target organ - repeated exposure

May cause damage to the respiratory system through prolonged or repeated exposure if inhaled.

alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Oral	NOAEL	OECD 408	23 mg/kg bw/day	13 weeks	Systemic effects	Rat (Rattus norvegicus)	F/M

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Inhalation					Causes damage		

Repeated dose toxicity

methylenediphenyl diisocyanate, isomers and homologues

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Inhalation (aerosols)	LOAEC	Local effects	OECD 453	1 mg/m ³	2 years	Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	NOAEC	Local effects	OECD 453	0.2 mg/m ³	2 years	Rat (Rattus norvegicus)	F/M

Aspiration hazard

Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

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Acute toxicity

alkanes, C14-17, chloro						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC ₅₀	OECD 202	5.9 µg/l	48 hours	Aquatic invertebrates (Daphnia magna)		
LC ₅₀	OECD 203	>10000 mg/l	96 hours	Fish (Alburnus alburnus)		
EC ₅₀	OECD 201	>3.2 mg/l	96 hours	Algae (Raphidocelis subcapitata)		
NOEC	OECD 201	0.1 mg/l	96 hours	Algae (Raphidocelis subcapitata)		
NOEC	OECD 209	>2000 mg/l	3 hours	Aquatic microorganisms	Activated sludge	

methylenediphenyl diisocyanate, isomers and homologues						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EL ₅₀	OECD 209	>1000 mg/l	3 hours	Aquatic microorganisms	Activated sludge	
EC ₅₀	OECD 207	>1000 mg/kg of dry substance of soil	14 days	Invertebrates (Eisenia fetida)		
LL ₅₀	OECD 203	>100 mg/l	96 hours	Fish (Danio rerio)		
EL ₅₀	OECD 202	3.7 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)		Read-across
EL ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		

tris(2-chloro-1-methylethyl) phosphate						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀		56.2 mg/l	96 hours	Fish		
EC ₅₀		131 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)		
EC ₅₀		47 mg/l	96 hours	Algae		
EC ₅₀		82 mg/l	72 hours	Algae		

Chronic toxicity

alkanes, C14-17, chloro						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
NOEC	OECD 204	4.5 mg/l	60 days	Fish (Oncorhynchus mykiss)		
NOEC	OECD 202	8.7 µg/l	21 days	Aquatic invertebrates (Daphnia magna)		

12.2. Persistence and degradability

The product is partially biodegradable.

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Biodegradability

alkanes, C14-17, chloro					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	27 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

alkanes, C14-17, chloro						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow		5.47≤...≤8.01				

methylenediphenyl diisocyanate, isomers and homologues						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	OECD 305	92	28 days	Fish (Cyprinus carpio)		

12.4. Mobility in soil

The product is insoluble in water and does not show mobility in soil.

alkanes, C14-17, chloro				
Parameter	Value	Environment	Temperature	Value determination
Log Koc	5.77			QSAR

12.5. Results of PBT and vPvB assessment

Based on Decision D(2021)4569-DC, chloroalkanes, C14-17 are assigned PBT and vPvB properties.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Danger of environmental contamination, follow the applicable waste disposal regulations. Store unused product and contaminated packaging in closed containers for waste collection and hand over for disposal to a specialized company authorized to conduct such activity. Do not pour unused product into drains. It must not be disposed of together with municipal waste. Empty packaging can be used for energy in a waste incineration plant or collected in a landfill with an appropriate classification. Perfectly cleaned packaging can be recycled. The classification of waste may change depending on where it is generated.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

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14.4. Packing group

not relevant

14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.



UN number

5F

Classification code

2.1+dangerous for the environment

Safety signs



Road transport - ADR

Special provisions 190, 327, 344, 625

Limited quantities 1 L

Excepted quantities E0

Packaging

Packing instructions P207, LP200

Special packing provisions PP87, RR6, L2

Mixed packing provisions MP9

Transport category 2

Tunnel restriction code (D)

Special provision for

packages V14

loading, unloading and handling CV9, CV12

operation S2

Railway transport - RID

Special provisions 190, 327, 344, 625

Excepted quantities E0

Packaging

Packing instructions P207, LP200

Special packing provisions PP87, RR6, L2

Mixed packing provisions MP9

Transport category 0

Special provision for

packages W 14

loading, unloading and handling CW 9, CW 12

Air transport - ICAO/IATA

Packaging instructions for limited amount Y203

Packaging instructions passenger 203

Cargo packaging instructions 203

Marine transport - IMDG

EmS (emergency plan) F-D, S-U

MFAG 620

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SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Aerosol Dispensers (Amendment) Regulations 2018. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

methylenediphenyl diisocyanate, isomers and homologues

Restriction	Conditions of restriction
56	<p>1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:</p> <p>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC (*****);</p> <p>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:</p> <p>“— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.</p> <p>— Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</p> <p>— 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.”</p> <p>2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.</p>
74	<p>1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:</p> <p>(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or</p> <p>(b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture (s).</p> <p>2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:</p> <p>(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or</p> <p>(b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: “As from 24 August 2023 adequate training is required before industrial or professional use”.</p> <p>3. For the purpose of this entry “industrial and professional user(s)” means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.</p> <p>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:</p> <p>(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).</p> <p>(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:</p> <ul style="list-style-type: none">— 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;

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Restriction	Conditions of restriction
	<p>– any other uses with similar exposure through the dermal and/or inhalation route;</p> <p>(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:</p> <p>– handling incompletely cured articles (e.g. freshly cured, still warm);</p> <p>– foundry applications;</p> <p>– maintenance and repair that needs access to equipment;</p> <p>– open handling of warm or hot formulations (> 45 °C);</p> <p>– spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers);</p> <p>– and any other uses with similar exposure through the dermal and/or inhalation route.</p> <p>5. Training elements:</p> <p>(a) general training, including on-line training, on:</p> <p>– chemistry of diisocyanates;</p> <p>– toxicity hazards (including acute toxicity);</p> <p>– exposure to diisocyanates;</p> <p>– occupational exposure limit values;</p> <p>– how sensitisation can develop;</p> <p>– odour as indication of hazard;</p> <p>– importance of volatility for risk;</p> <p>– viscosity, temperature, and molecular weight of diisocyanates;</p> <p>– personal hygiene;</p> <p>– personal protective equipment needed, including practical instructions for its correct use and its limitations;</p> <p>– risk of dermal contact and inhalation exposure;</p> <p>– risk in relation to application process used;</p> <p>– skin and inhalation protection scheme;</p> <p>– ventilation;</p> <p>– cleaning, leakages, maintenance;</p> <p>– discarding empty packaging;</p> <p>– protection of bystanders;</p> <p>– identification of critical handling stages;</p> <p>– specific national code systems (if applicable);</p> <p>– behaviour-based safety;</p> <p>– certification or documented proof that training has been successfully completed</p> <p>(b) intermediate level training, including on-line training, on:</p> <p>– additional behaviour-based aspects;</p> <p>– maintenance;</p> <p>– management of change;</p> <p>– evaluation of existing safety instructions;</p> <p>– risk in relation to application process used;</p> <p>– certification or documented proof that training has been successfully completed</p> <p>(c) advanced training, including on-line training, on:</p> <p>– any additional certification needed for the specific uses covered;</p> <p>– spraying outside a spraying booth;</p> <p>– open handling of hot or warm formulations (> 45 °C);</p> <p>– certification or documented proof that training has been successfully completed</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>9. Member States shall include in their reports pursuant to Article 117(1) the following information:</p> <p>(a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law;</p> <p>(b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates;</p> <p>(c) national exposure limits for diisocyanates, if there are any;</p>

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Restriction	Conditions of restriction
	(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.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
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.
H362	May cause harm to breast-fed children.
H373	May cause damage to the respiratory system through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
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 gas/vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to by disposing in a hazardous waste receptacle.

A list of additional standard phrases used in the safety data sheet

EUH204	Contains isocyanates. May produce an allergic reaction.
EUH066	Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service

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CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEC	Lowest observed adverse effect concentration
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
Press. Gas (Comp.)	Gas under pressure: compressed gas
Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aerosol	Aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Lact.	Lactation
Press. Gas	Gases under pressure
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

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STOT RE Specific target organ toxicity - repeated exposure
STOT SE Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.
