

PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture PU FOAM FAST
Number RS 10008
UFI 88QV-709A-J00U-00C3
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Barrier (Sealant).
Mixture uses advised against
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
VAT Reg No CZ25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

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, H222, H229
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
Aquatic Chronic 4, H413

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

Most serious adverse physico-chemical effects

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

Most serious adverse effects on human health and the environment

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

PU FOAM FAST

Creation date

20th January 2022

Revision date

Version

3.0

2.2. Label elements**Hazard pictogram****Signal word**

Danger

Hazardous substancesdiphenylmethanediisocyanate, isomeres 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 organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary statements

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.
P261	Avoid breathing spray.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplemental information

EUH204
Contains isocyanates. May produce an allergic reaction.
Restricted to professional users.
As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

Do not use in the vicinity of ignition sources.
Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]: substance of very high concern have been included in the Candidate List for eventual inclusion in Annex XIV of the Regulation REACH. Intrinsic property (ies) referred to in article 57: PBT (Article 57d), vPvB (Article 57e).

PU FOAM FAST

 Creation date 20th January 2022
 Revision date Version 3.0

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture of substances and additives specified below.

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	diphenylmethanediisocyanate, isomeres and homologues	30-60	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	4
Index: 602-095-00-X CAS: 85535-85-9 EC: 287-477-0 Registration number: 01-2119519269-33	alkanes, C14-17, chloro	<15	Lact., H362 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1) EUH066	2, 3
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2	butane (containing < 0,1 % butadiene (203-450-8))	5-10	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
Index: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8 Registration number: 01-2119472128-37	dimethyl ether	5-10	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane	1-5	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	

Notes

- 1 Substance with a Union workplace exposure limit.
- 2 Substance of very high concern - SVHC.
- 3 Persistent, bioaccumulative and toxic or very persistent and very bioaccumulative
- 4 The use of the substance is restricted by Annex XVII of REACH Regulation

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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards.

If inhaled

Transfer the affected person to the fresh air and ensure calm environment for body and mind. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly. Provide medical treatment if skin irritation persists.

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 15 minutes. In the event of issues, find medical advice.

If swallowed

Unlikely. Keep the affected person warm and at rest. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

May cause respiratory irritation.

If on skin

There may be irritation and redness at the site of contact. Dryness and crackness of skin. May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation. Burning, redness, lacrimation.

If swallowed

Possible irritation. Nausea, stomach pain, vomiting, diarrhoea.

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

Immediate medical attention is not required under normal use conditions.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, sand, powder. Earth.

Unsuitable extinguishing media

Water. Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Do not breathe smoke. Solvent gases are heavier than air and accumulate mainly on the floor where they can form an explosive mixture when mixed with air.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Take action to prevent static discharges. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale gases and vapours. Do not inhale aerosols. Prevent contact with skin and eyes. Vapors from gases are heavier than air. Prevent vapors from entering drains.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3. Methods and material for containment and cleaning up

Cover contaminated area with damp earth or sand and let react for at least 30 minutes. Then remove mechanically. Organic solvents such as acetone can remove uncured foam.

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 contact with skin and eyes. Do not inhale gases and vapours. Do not inhale aerosols. Provide sufficient ventilation. Use personal protective equipment as per Section 8. Remove all ignition sources. No smoking. Use non-sparking tools. Take action to prevent static discharges. Proceed according to the instructions for use - no special protective measures are required if they are observed.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Store in a dry place. Keep cool. Keep away from heat, open flames. Take action to prevent static discharges. No smoking. Do not store together with food, drink and animal feed. Pressurised container: May burst if heated. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Content	Packaging type	Material of package
750 ml	aerosol can	

PU FOAM FAST

 Creation date 20th January 2022
 Revision date Version 3.0

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.

European Union
Commission Directive 2000/39/EC

Substance name (component)	Type	Value
dimethyl ether (CAS: 115-10-6)	OEL 8 hours	1920 mg/m ³
	OEL 8 hours	1000 ppm

DNEL

alkanes, C14-17, chloro

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Inhalation	0.58 mg/kg bw/day	Local chronic effects	
Consumers	Inhalation	2 mg/m ³	Systemic chronic effects	
Workers	Inhalation	6.7 mg/m ³	Systemic chronic effects	
Consumers	Dermal	28.75 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	47.9 mg/kg bw/day	Systemic chronic effects	

diphenylmethanediisocyanate, isomers and homologues

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Oral	20 mg/kg bw/day	Systemic acute effects	
Consumers	Inhalation	0.05 mg/m ³	Local acute effects	
Consumers	Inhalation	0.05 mg/m ³	Systemic acute effects	
Consumers	Inhalation	0.025 mg/m ³	Local chronic effects	
Consumers	Inhalation	0.025 mg/m ³	Systemic chronic effects	
Workers	Inhalation	0.1 mg/m ³	Local acute effects	
Workers	Inhalation	0.1 mg/m ³	Systemic acute effects	
Workers	Inhalation	0.05 mg/m ³	Local chronic effects	
Workers	Inhalation	0.05 mg/m ³	Systemic chronic effects	
Consumers	Dermal	17.2 mg/cm ²	Local acute effects	
Consumers	Dermal	25 mg/kg bw/day	Systemic acute effects	
Workers	Dermal	28.7 mg/cm ²	Local acute effects	
Workers	Dermal	50 mg/cm ²	Systemic acute effects	

PNEC

alkanes, C14-17, chloro

Route of exposure	Value	Determining method
Drinking water	1 µg/l	
Seawater	0.2 µg/l	
Soil (agricultural)	10.5 mg/kg	
Microorganisms in wastewater treatment plants	80 mg/l	
Freshwater sediment	5 mg/kg	
Sea sediments	1 mg/kg	

PU FOAM FAST

 Creation date 20th January 2022
 Revision date Version 3.0

diphenylmethanediisocyanate, isomeres and homologues

Route of exposure	Value	Determining method
Freshwater environment	1 mg/l	
Seawater	0.1 mg/l	
Water (intermittent release)	10 mg/kg	
Microorganisms in wastewater treatment plants	1 mg/kg	
Soil (agricultural)	1 mg/kg of dry substance of soil	

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not eat, drink and smoke during work. Prevent contact with skin and eyes. Remove contaminated clothes. And wash it before reuse. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Treat with regenerative cream. Pregnant women should avoid inhalation and skin contact.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product.

Material of gloves: Butyl rubber (Penetration time of glove material: ≥480 min. Recommended thickness of the material: ≥ 0.5 mm). Fluororubber (Penetration time of glove material: ≥480 min. Recommended thickness of the material: ≥ 0.4 mm). Neoprene (Penetration time of glove material: ≥480 min. Recommended thickness of the material: ≥ 0.5 mm). Nitrile rubber (Penetration time of glove material: ≥480 min. Recommended thickness of the material: ≥ 0.35 mm). Chloroprene rubber. Polyethylene. EVAL. PVC. 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.

Respiratory protection

Under regular circumstances it is not necessary. In case of inadequate ventilation wear respiratory protection. EN143 - Respiratory protective devices - Gas filter(s) and combined filter(s). Filter A1.

Thermal hazard

Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	data not available
Odour	data not available
Melting point/freezing point	<0 °C (ISO 3016; MDI)
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	
bottom	1,5 % (hnací plyn)
upper	16 % (hnací plyn)
Flash point	>200 °C (DIN 53171; MDI)
Auto-ignition temperature	226 °C (1013 hPa; dimethylether)
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Viscosity	>200 mPa.s (DIN 53019; 20 °C; MDI)
Solubility in water	insoluble
Solubility Before curing: soluble in polar organic solvents.	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	<0,7 MPa at 20 °C
Vapour pressure	<0,00001 hPa (MDI)

PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

Density and/or relative density	
Density	1,0 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	aerosol dispenser: spray aerosol
9.2. Other information	
Evaporation rate	The propellant is released, the emerging PU-foam does not evaporate.
Ignition temperature	>500 °C (DIN 51794; MDI)
Ignition temperature	350 °C (hnací plyn)
Content of organic solvents (VOC)	0,2 kg/kg
The vapor density of the propellant is twice the density of air - the vapors accumulate especially near the floor.	

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and no degradation occurs under normal use.

10.2. Chemical stability

The product is stable and no degradation occurs under normal use.

10.3. Possibility of hazardous reactions

Reacts with active hydrogen-containing compounds, including water - due to reaction with water and/or humidity, producing carbon dioxide gas, a hazardous build-up of pressure could result. Also, strong acids and strong oxidizing agents, e.g.: hydrogen peroxide, nitric acid.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating. Pressurised container: May burst if heated. Take action to prevent static discharges.

10.5. Incompatible materials

Protect against strong acids and oxidizing agents. Water. E.g.: hydrogen peroxide, nitric acid.

10.6. Hazardous decomposition products

Not developed under normal uses. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Harmful if inhaled.

butane (containing < 0,1 % butadiene (203-450-8))

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC ₅₀	>20 mg/l	4 hour	Rat	

propane

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC ₅₀	>20 mg/l	4 hour	Rat	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

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.

PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May cause harm to breast-fed children.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

More information

Classification procedure - calculation method.

11.2. Information on other hazards

Based on isocyanate properties and considering the toxicological data of similar mixtures, this preparation may cause irritations and/or sensitisations of the respiratory system. Those susceptible may display asthmatic symptoms when exposed to atmospheres with an isocyanate concentration well below those of the exposure limits (WEL). Prolonged or repeated contact with the product causes skin degreasing and drying.

SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

May cause long lasting harmful effects to aquatic life.

alkanes, C14-17, chloro

Parameter	Method	Value	Time of exposure	Species	Environment
EC ₅₀		0.006 mg/l	48 hour	Daphnia (Daphnia magna)	
LC ₅₀		1 mg/l	96 hour	Crustaceans (Gammarus pulex)	
LC ₅₀		5000 mg/l	96 hour	Fishes (Alburnus alburnus)	
EC ₅₀		3.2 mg/l	96 hour	Algae (Selenastrum capricornutum)	

diphenylmethanediisocyanate, isomeres and homologues

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀	OECD 203	>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀	OECD 202	>1000 mg/l	24 hour	Daphnia (Daphnia magna)	
ErC ₅₀	OECD 201	>1640 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
EC ₅₀	OECD 209	>100 mg/l	3 hour	Bacteria	Activated sludge

PU FOAM FAST

Creation date

20th January 2022

Revision date

Version

3.0

Chronic toxicity

diphenylmethanediisocyanate, isomeres and homologues

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC	OECD 202	>10 mg/l	21 day	Daphnia (Daphnia magna)	
NOEC	OECD 207	>1000 mg/kg	14 day	Eisenia fetida	
NOEC	OECD 208	>1000 mg/kg	14 day	Higher plants (Avena sativa)	

More information

The mixture (the contents of the container - PU foam) is insoluble in water and will spread on the water surface.

12.2. Persistence and degradability
Biodegradability

alkanes, C14-17, chloro

Parameter	Method	Value	Time of exposure	Environment	Result	Source
c			1-2 day	Atmosphere	Low	
		57 %	36 hour			C14,5 (43,5 % Cl2)
DT 50			12 day	Freshwater		C16 (35 % Cl2 58 Cl2)
DT 50			58 day			C16 (35 % Cl2 58 % Cl2)
		51 %	36 hour			C15,4 (50 % Cl2)

diphenylmethanediisocyanate, isomeres and homologues

Parameter	Method	Value	Time of exposure	Environment	Result	Source
					Hardly biodegradable	
BSK	OECD 302C	0 %	28 day	Activated sludge	Hardly biodegradable	

Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]: substance of very high concern have been included in the Candidate List for eventual inclusion in Annex XIV of the Regulation REACH. Intrinsic property (ies) referred to in article 57: PBT (Article 57d), vPvB (Article 57e).

12.3. Bioaccumulative potential

alkanes, C14-17, chloro

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF		<2000000 ml/kg				
BMF		<1				

PU FOAM FASTCreation date 20th January 2022
Revision date Version 3.0

diphenylmethanediisocyanate, isomeres and homologues

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	OECD 305	200	28 day	Cyprinus carpio		

Not available.

12.4. Mobility in soil

Is very limited due to chemical reaction with water to form an insoluble product (PU foam).

12.5. Results of PBT and vPvB assessment

Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]: substance of very high concern have been included in the Candidate List for eventual inclusion in Annex XIV of the Regulation REACH. Intrinsic property (ies) referred to in article 57: PBT (Article 57d), vPvB (Article 57e).

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

Isocyanate reacts with water at the interface forming CO₂ and a solid, insoluble product with a high melting point (polyurea). This reaction is strongly promoted by surfactants (e.g. liquid soaps) or water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

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.

Waste type code

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances *
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Packaging waste type code

16 05 04 gases in pressure containers (including halons) containing hazardous substances *
15 01 11 metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

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

14.4. Packing group

not relevant

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.


PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	
UN number	1950
Classification code	5F
Safety signs	2.1



Marine transport - IMDG

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

SECTION 15: Regulatory information

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

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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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

diphenylmethanediisocyanate, isomeres 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>

PU FOAM FAST

Creation date

20th January 2022

Revision date

Version

3.0

diphenylmethanediisocyanate, isomeres and homologues

Restriction	Conditions of restriction
	<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; – any other uses with similar exposure through the dermal and/or inhalation route; <p>(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:</p> <ul style="list-style-type: none"> – handling incompletely cured articles (e.g. freshly cured, still warm); – foundry applications; – maintenance and repair that needs access to equipment; – open handling of warm or hot formulations (> 45 °C); – spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers); – and any other uses with similar exposure through the dermal and/or inhalation route. <p>5. Training elements:</p> <p>(a) general training, including on-line training, on:</p> <ul style="list-style-type: none"> – chemistry of diisocyanates; – toxicity hazards (including acute toxicity); – exposure to diisocyanates; – occupational exposure limit values; – how sensitisation can develop; – odour as indication of hazard; – importance of volatility for risk; – viscosity, temperature, and molecular weight of diisocyanates; – personal hygiene; – personal protective equipment needed, including practical instructions for its correct use and its limitations; – risk of dermal contact and inhalation exposure; – risk in relation to application process used; – skin and inhalation protection scheme; – ventilation; – cleaning, leakages, maintenance; – discarding empty packaging; – protection of bystanders; – identification of critical handling stages; – specific national code systems (if applicable); – behaviour-based safety; – certification or documented proof that training has been successfully completed <p>(b) intermediate level training, including on-line training, on:</p> <ul style="list-style-type: none"> – additional behaviour-based aspects; – maintenance; – management of change; – evaluation of existing safety instructions; – risk in relation to application process used; – certification or documented proof that training has been successfully completed <p>(c) advanced training, including on-line training, on:</p> <ul style="list-style-type: none"> – any additional certification needed for the specific uses covered; – spraying outside a spraying booth; – open handling of hot or warm formulations (> 45 °C); – certification or documented proof that training has been successfully completed

PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

diphenylmethanediisocyanate, isomeres and homologues

Restriction	Conditions of restriction
	6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met. 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design. 8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years. 9. Member States shall include in their reports pursuant to Article 117(1) the following information: (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law; (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates; (c) national exposure limits for diisocyanates, if there are any; (d) information about enforcement activities related to this restriction. 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

15.2. Chemical safety assessment

not available

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.
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 organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Guidelines for safe handling used in the safety data sheet

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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P261	Avoid breathing spray.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

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

EUH204	Contains isocyanates. May produce an allergic reaction.
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PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

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
BSK	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
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
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
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
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

PU FOAM FAST

Creation date	20th January 2022	Version	3.0
Revision date			

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.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 20 May 2021. Changes were made in sections 2, 13, 15 and 16.

More information

Classification procedure - calculation method. Classification of the mixture with attributed H413 phrase, taking into account the content of chlorinated hydrocarbons (max. 30 %), was made on the basis of ecotoxicological tests; FEICA.

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.