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			Regulation (EU) 2020/878 as		rytm trade MEMBER OF RYTM GROUP
	E	XPERT LINE	Gun Foam All sea	ison	
		April 2025			
Revisi	on date		Version	2.1	
SECTI	ON 1: Identification of the	substance/mixture	e and of the company/un	dertaking	
1.1.	Product identifier		EXPERT LINE Gun	Foam All season	
	Substance / mixture		mixture		
	UFI		UYY0-U95G-H004	-XU4Q	
1.2.	Relevant identified uses	of the substance or	mixture and uses advise	d against	
	Mixture's intended use				
	in construction – Single-con and sealing.	nponent polyurethane	foam in gun applicator vers	ion is destined for asse	embling, insulation
	Main intended use				
	PC-ADH-2 Adhesives and sealants - building and construction works (except cement based adhesives)				
	PC-ADH-2	Adhesives and se adhesives)	ealants - building and constr		chiefte bused
	Mixture uses advised aga	adhesives)	ealants - building and constr		ement based
		adhesives) inst	-		
1.3.	Mixture uses advised aga	adhesives) inst sed in ways other tha	an those referred in Section		
L. 3 .	Mixture uses advised aga The product should not be u	adhesives) inst sed in ways other tha	an those referred in Section		
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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. 1B, 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 (respiratory tract) (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410



Container must carry a tactile warning of danger.



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2.3. Other hazards

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

Chemical characterization

Mixture.

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	Polymeric diphenylmethane diisocyanate, Polymeric MDI	38-55	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory tract (inhalation)) Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335: $C \ge 5$ % Resp. Sens. 1, H334: $C \ge 0.1$ %	
Index: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8 Registration number: 01-2119472128-37- xxxx	dimethyl ether	<10	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	2, 3
Index: 602-095-00-X CAS: 85535-85-9 EC: 287-477-0 Registration number: 01-2119519269-33- xxxx	alkanes, C14-17, chloro	<10	Lact., H362 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10) EUH066	4, 5
CAS: 13674-84-5 EC: 237-158-7 Registration number: 01-2119486772-26- xxxx	tris(2-chloro-1-methylethyl) phosphate	<10	Acute Tox. 4, H302	
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32- xxxx	butane	<5	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21- xxxx	propane	<4	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	2



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27- xxxx	isobutane		Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2

Notes

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 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).

- 3 A substance for which exposure limits are set.
- 4 Substance of very high concern SVHC.
- 5 Persistent, bioaccumulative and toxic or very persistent and very bioaccumulative

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

Remove person to fresh air and keep comfortable for breathing. In the event of issues, find medical advice.

If on skin

Remove contaminated clothes immediately. Wash with plenty of soap and water. 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). Rinsing should continue at least for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

If on skin

May cause an allergic skin reaction. Possible irritation.

If in eyes

Causes serious eye irritation. Temporary feeling of burning and redness.

If swallowed

Not expected.

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

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, powder, water spray jet, water mist. Accommodate extinguishing components to the location of fire. **Unsuitable extinguishing media**

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. Trace amounts of cyanide may be formed. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. 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

Do not inhale gases and vapours. Use personal protective equipment for work. Remove all ignition sources; provide sufficient ventilation. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Uncured foam can be removed with a cloth and solvents, e.g. acetone. Collect in a waste container. Ventilate the room. Remove hardened foam mechanically. Hardening of the foam occurs when exposed to humidity. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

For information on safe handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use personal protective equipment as per Section 8. Do not get in eyes, on skin. Do not inhale gases and vapours. Use only outdoors or in a well-ventilated area. Protect against sources of heating and ignition or direct sunlight. Do not eat, drink or smoke when using this product. Do not pierce or burn, even after use. Wash hands and exposed parts of the body thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in originally closed containers in an upright position, in cold, dry and well ventilated areas designated for this purpose. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not expose to sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature is from +5 °C to +30 °C (optimally +20 °C). Protect against frost. Do not store together with food, drink and animal feed. Keep out of reach of children.

Content	Packaging type	Material of package
750 ml	can / tin	FE
Storage class	2B - Ae	rosols
Storage temperature		30 °C
Specific end use(s)		
not available		

not available

7.3.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

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European Union	Commission Directive 2000/39/EC		
Substance name (component)	Туре	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
Consumers (0)	Oral	0.58 mg/kg bw/day	Chronic effects systemic
Consumers (0)	Dermal	28.75 mg/kg bw/day	Chronic effects systemic
Workers (0)	Dermal	47.9 mg/kg bw/day	Chronic effects systemic
Consumers (0)	Inhalation	2 mg/m ³	Chronic effects systemic
Workers (0)	Inhalation	6.7 mg/m ³	Chronic effects systemic

Polymeric diphenylmethane diisocyanate, Polymeric MDI			
Workers / consumers	Route of exposure	Value	Effect
Workers (0)	Inhalation	0.1 mg/m ³	Acute effects local
Workers (0)	Inhalation	0.05 mg/m ³	Chronic effects local
Consumers (0)	Inhalation	0.05 mg/m ³	Acute effects local
Consumers (0)	Inhalation	0.025 mg/m ³	Chronic effects local

tris(2-chloro-1-methylethyl) phosphate				
Workers / consumers	Route of exposure	Value	Effect	
Consumers (0)	Dermal	4 mg/kg	Acute effects systemic	
Consumers (0)	Inhalation	43 mg/m ³	Acute effects systemic	
Consumers (0)	Dermal	1.04 mg/kg bw/day	Chronic effects systemic	
Consumers (0)	Inhalation	0.52 mg/m ³	Chronic effects systemic	
Consumers (0)	Oral	0.52 mg/kg bw/day	Chronic effects systemic	

PNEC

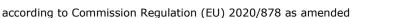
alkanes, C14-17, chloro			
Route of exposure	Value		
Drinking water	0.001 mg/l		
Marine water	0.0002 mg/l		
Microorganisms in sewage treatment	80 mg/l		
Freshwater sediment	13 mg/kg of dry substance of sediment		
Sea sediments	2.6 mg/kg of dry substance of sediment		
Soil (agricultural)	11.9 mg/kg of dry substance of soil		
Oral	10 mg/kg of food		

Polymeric diphenylmethane diisocyanate, Polymeric MDI		
Route of exposure	Value	
Drinking water	3.7 μg/l	
Marine water	0.37 μg/l	
Freshwater sediment	11.7 mg/kg of dry substance of sediment	
Sea sediments	1.17 mg/kg of dry substance of sediment	
Soil (agricultural)	2.33 mg/kg of dry substance of soil	

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Route of exposure	Value	
·····		
Water (intermittent release)	37 μg/l	
tris(2-chloro-1-methylethyl) phosphate		
Route of exposure	Value	
·····	0.51 //	
Water (intermittent release)	0.51 mg/l	
Drinking water	0.64 mg/l	
Marine water	0.064 mg/l	
Soil (agricultural)	1.7 mg/kg of dry substance of soil	
Freshwater sediment	13.4 mg/kg of dry substance of sediment	
Sea sediments	1.34 mg/kg of dry substance of sediment	
Microorganisms in sewage treatment	7.84 mg/l	
Oral	<11.6 mg/kg of food	

8.2. Exposure controls

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

EN166 - Personal Eye Protection Standard. Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product according to EN ISO 374-1. Use gloves of PVC or rubber (type of gloves to protect against chemicals should chosen depending on the concentration and quantity of the hazardous substance). For special applications, we recommend contacting the manufacturer of protective gloves in order to explain the resistance of the aforementioned gloves for chemicals. Contaminated skin should be washed thoroughly with water and soap.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Use a mask with a gas filter in a poorly ventilated environment (e.g. type A1 according to EN 14387).

Thermal hazard

not available

Environmental exposure controls

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

More information

Personal protective equipment should be selected in accordance with the relevant EN standards and in agreement with their supplier.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
color intensity	light
Odour	characteristic
Melting point/freezing point	not determined
Polymeric diphenylmethane diisocyanate, Polymeric MDI (CAS: 9016-87-9)	<0 °C (DIN 51556)
Boiling point or initial boiling point and boiling range	-42 °C
Polymeric diphenylmethane diisocyanate, Polymeric MDI (CAS: 9016-87-9)	>300 °C
Flammability	inflammable
Polymeric diphenylmethane diisocyanate, Polymeric MDI (CAS: 9016-87-9)	non-inflammable
Lower and upper explosion limit	

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	bottom	1.5 %		
	upper	10.9 %		
	Flash point	-80 °C		
	Polymeric diphenylmethane diisocyanate, Polyr MDI (CAS: 9016-87-9)	neric >200 °C		
	Auto-ignition temperature	not applicable		
	Polymeric diphenylmethane diisocyanate, Polyr MDI (CAS: 9016-87-9)	neric >600 °C (EU Meth	nod A.15)	
	Decomposition temperature	data not available		
	pH	data not available		
	Kinematic viscosity	data not available		
	Solubility in water	insoluble		
	Partition coefficient n-octanol/water (log value)	data not available		
	Polymeric diphenylmethane diisocyanate, Polym MDI (CAS: 9016-87-9)	neric reacts with water		
	Vapour pressure	1200-7500 hPa at	20 °C	
	Polymeric diphenylmethane diisocyanate, Polym MDI (CAS: 9016-87-9)	neric <0.00001 mm Hg	at 25 °C (Literatura)	
	Density and/or relative density			
	Density	1.2 g/cm ³ at 20 °	C	
	Polymeric diphenylmethane diisocyanate, Polym MDI (CAS: 9016-87-9)	neric 1.23 g/cm ³ at 25	°C (Literatura)	
	Relative vapour density	data not available		
	Particle characteristics	data not available		
	Form	liquid, spray		
9.2.	Other information			
	not available			

SECTION 10: Stability and reactivity

10.1. Reactivity

When used and stored in the standard way, the mixture is not reactive.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions Reacts with substances containing an active hydrogen atom (amines, alcohols), reacts with water. Avoid strong acids and alkalis.

10.4. Conditions to avoid

Pressurised container: May burst if heated. Protect against flames, sparks, overheating and against frost.

- **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

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Based on available data the classification criteria are not met.

alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		>4000 mg/kg		Rat	



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butane						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC50		658 mg/l	4 hours	Rat	

Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex		
Oral	LD50		>2000 mg/kg		Rat (Rattus norvegicus)	F/M		
Inhalation	LC50	OECD 403	431 mg/m ³ of air	4 hours	Rat (Rattus norvegicus)	F/M		
Dermal	LD 50	OECD 402	>9400 mg/kg	24 hours	Rabbit	F/M		

tris(2-chloro-1-methylethyl) phosphate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		630-2000 mg/kg		Rat	
Oral	LD50		>2000 mg/kg		Rabbit	
Dermal	LD50		>2000 mg/kg		Rat	
Inhalation	LC50		>7 mg/l	4 hours	Rat	

Skin corrosion/irritation

Causes skin irritation.

Polymeric diphenylmethane diisocyanate, Polymeric MDI							
Route of exposure	Result	Method	Exposure time	Species			
Dermal	Irritating	OECD 404		Rabbit			

Serious eye damage/irritation

Causes serious eye irritation.

Polymeric diphenylmethane diisocyanate, Polymeric MDI							
Route of exposure	Result	Method	Exposure time	Species			
Eye	No effect	OECD 405		Rabbit			

Respiratory or skin sensitisation

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

Polymeric diphenylmethane diisocyanate, Polymeric MDI							
Route of exposure	Result	Method	Exposure time	Species	Sex		
Skin	Sensitizing	OECD 429		Guinea-pig			
Inhalation	Sensitizing			Rat			

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Result	Method	Exposure time	Specific target organ	Species	Sex			
Negative	EU B.13/14			Bacteria (Salmonella typhimurium)				



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Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Result	Method	Exposure time	Specific target organ	Species	Sex			
Negative	OECD 474	3 weeks (1 hour/day, 1 days/week)		Rat	М			

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May cause harm to breast-fed children.

Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	
	NOAEC	OECD 414	4 mg/m ³ of air	10 days (6 hour/day)	Maternal toxicity	Rat	F	

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Route of exposure	Parameter	Value	Result	Species	Sex			
Inhalation	Inhalation Irritating							

Toxicity for specific target organ - repeated exposure

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

Polymeric diphenylmethane diisocyanate, Polymeric MDI

Route of exposure	Parameter	Method	Value		Specific target organ	Result	Species	Sex
Inhalation (aerosols)		OECD 453	0.23 mg/m ³ of air	2 years (17 hour/da y, 5 days/wee k)	Lungs		Rat	F

Aspiration hazard

Based on available data the classification criteria are not met.

Polymeric diphen	Polymeric diphenylmethane diisocyanate, Polymeric MDI									
Route of exposure	Result	Exposure time	Species	Sex	Value determination					
					Insufficient data					

11.2. Information on other hazards

Endocrine disrupting properties: Based on available data, the criteria for classification are not met.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.



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Acute toxicity

alkanes, C14	alkanes, C14-17, chloro									
Parameter	Method	Value	Exposure time	Species	Environmen t					
EC₅o	OECD 202	0.006 mg/l	48 hours	Daphnia (Daphnia magna)						
LC50	OECD 203	>5000 mg/l	96 hours	Fish						
EC50	OECD 201	>3.2 mg/l	72 hours	Algae						

Polymeric di	Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Parameter	Method	Value	Exposure time	Species	Environmen t				
LC50	OECD 203	>1000 mg/l	96 hours	Fish (Danio rerio)	Fresh water				
EC₅o	OECD 202	3.7 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water				
EC50	OECD 201	>100 mg/l	72 hours	Algae (Desmodesmus subspicatus)	Fresh water				
EC50	OECD 209	>100 mg/l	3 hours	Microorganisms	Activated sludge				
LC50	OECD 207	>1000 mg/kg of dry substance of soil	14 days	Invertebrates (Eisenia fetida)					
EC50	OECD 208	>1000 mg/kg of dry substance of soil	14 days	Higher plants (Avena sativa)					
EC50	OECD 208	>1000 mg/kg of dry substance of soil	14 days	Higher plants (Lactuca sativa)					

tris(2-chloro	tris(2-chloro-1-methylethyl) phosphate									
Parameter	Method	Value	Exposure time	Species	Environmen t					
LC ₅₀		56.2 mg/l	96 hours	Fish	Fresh water					
EC₅o		131 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water					
EC50		47 mg/l	96 hours	Algae	Fresh water					
EC50		82 mg/l	72 hours	Algae	Fresh water					

Chronic toxicity

alkanes, C14-	17, chloro				
Parameter	Method	Value	Exposure time	Species	Environmen t
NOEC	OECD 212	3.4 mg/l		Fish	
NOEC	OECD 202	0.01 mg/l	21 days	Daphnia (Daphnia magna)	
Polymeric dip	henylmethane di	isocyanate, Polyme	eric MDI		
Parameter	Method	Value	Exposure time	Species	Environmen t
NOEC	OECD 211	≥10 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water



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tris(2-chloro-1-methylethyl) phosphate								
Parameter	Method	Value	Exposure time	Species	Environmen t			
NOEC		32 mg/l		Daphnia (Daphnia magna)	Fresh water			

12.2. Persistence and degradability

not available

н	a	lt-	lite	e t	Im	e

Polymeric diphenylmethane diisocyanate, Polymeric MDI							
Route of exposure Value		Value determination	Source				
Air	8 hours						
Drinking water	5 minutes						
Soil (agricultural)	24 hours						

Biodegradability

alkanes, C14-1	alkanes, C14-17, chloro									
Parameter	Method	Value	Exposure time	Environment	Result					
	OECD 301D	13-66 %	28 days							

Polymeric diphe	Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Parameter	Method	Value	Exposure time	Environment	Result				
	OECD 302C	0 %	28 hours		Not biodegradable, Persistent				

12.3. Bioaccumulative potential

Data not available.

Polymeric diphenylmethane diisocyanate, Polymeric MDI									
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]			
BCF	OECD 305	200	28 days	Fish (Cyprinus carpio)	Fresh water				

12.4. Mobility in soil

Data not available.

Polymeric diphenylmethane diisocyanate, Polymeric MDI			
Parameter	Value	Temperature	
Log Кос	4.5	20°C	

12.5. Results of PBT and vPvB assessment

PBT: alkanes, C14-C17, chloro [CAS: 85535-85-9] vPvB: alkanes, C14-C17, chloro [CAS: 85535-85-9]

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



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The isocyanate reacts with water in the boundary layer to form CO₂ and the solid, insoluble product with high melting point (polyurea). This reaction is strong intensifying in the presence of surface-active agents (e.g., liquid soaps) or water-soluble solvents. According to the experience so far the polyurea is not reactive and does not decompose. The impact of MDI on global warming, reducing the thickness of the layer ozonosphere in the stratosphere or in the accumulation of ozone in the troposphere is not expected.

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

16 05 04* gases in pressure containers (including halons) containing hazardous substances

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

Packaging waste type code

15 01 01 paper and cardboard packaging

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - 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

Always transport closed containers in an upright position, protected against accidental displacement. Do not transport or store in the passenger compartment. Do not leave it in a hot vehicle (risk of explosion). Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

non-applicable

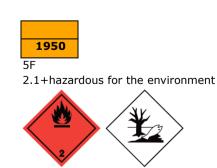
Additional information

Disable LQ.

Hazard identification No.

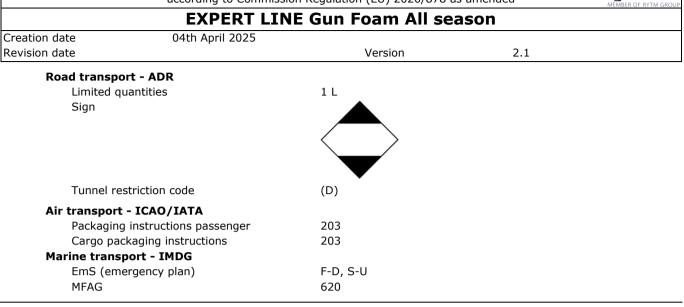
UN number

Classification code Safety signs



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rutm trade



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 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).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet				
EUH066	Repeated exposure may cause skin dryness or cracking.			
EUH204	Contains isocyanates. May produce an allergic reaction.			
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 tract (inhalation) through prolonged or repeated exposure.			
H373	May cause damage to the respiratory tract 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	g 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.			



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P210	Keep away from heat, hot surfaces, sparks, op No smoking.	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 ignitio	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 so			
P304+P340	IF INHALED: Remove person to fresh air and k			
P305+P351+P3	•	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact		
P410+P412	Protect from sunlight. Do no expose to temper	-		
P501	Dispose of contents/container to according to a	-		
Other importa	nt information about human health protection			
	onsible for adherence to all related health protection regulation	S.		
	ations and acronyms used in the safety data sheet			
Acute Tox.	Acute toxicity			
ADR	European agreement concerning the internatio	nal carriage of dangerous goods by		
Aerosol	Aerosol			
Aquatic Acute	Hazardous to the aquatic environment			
Aquatic Chronic		3)		
BCF	Bioconcentration Factor	-)		
Carc.	Carcinogenicity			
CAS	Chemical Abstracts Service			
CLP	Regulation (EC) No 1272/2008 on classification substance and mixtures	n, labelling and packaging of		
EC	Identification code for each substance listed in	EINECS		
EC50	Concentration of a substance when it is affected	d 50 % of the population		
EINECS	European Inventory of Existing Commercial Ch			
EmS	Emergency plan			
EU	European Union			
EuPCS	European Product Categorisation System			
Eye Irrit.	Eye irritation			
Flam. Gas	Flammable gas			
IATA	International Air Transport Association			
IBC	International Code For The Construction And E Dangerous Chemicals	quipment of Ships Carrying		
ICAO	International Civil Aviation Organization			
IMDG	International Maritime Dangerous Goods			
IMO	International Maritime Organization			
INCI	International Nomenclature of Cosmetic Ingred	lients		
ISO	International Organization for Standardization			
IUPAC	International Union of Pure and Applied Chemi	stry		
Lact.	Lactation			
LC50	Lethal concentration of a substance in which it population	can be expected death of 50% of the		
LD50	Lethal dose of a substance in which it can be e population	xpected death of 50% of the		
log Kow	Octanol-water partition coefficient			
NOAEC	No observed adverse effect concentration			
NOEC	No observed effect concentration			
OEL	Occupational Exposure Limits			
PBT	Persistent, bioaccumulative and toxic			
PMT	Persistent, mobile and toxic			



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ppm	Parts per million		
Press. Gas	Gases under press	ure	
Press. Gas (Comp.)	Gas under pressur	e: compressed gas	
Press. Gas (Diss.)	Gas under pressure	e: dissolved gas	
Press. Gas (Liq.)	Gas under pressur	e: liquefied gas	
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
Resp. Sens.	Respiratory sensiti	zation	
RID	Agreement on the	transport of dangerous g	oods by rail
Skin Irrit.	Skin irritation		
Skin Sens.	Skin sensitization		
STOT RE	Specific target org	an toxicity - repeated exp	oosure
STOT SE	Specific target org	an toxicity - single expos	ure
UN	Four-figure identifi Model Regulations	cation number of the sub	stance or article taken from the UN
UVCB	Substances of unk biological materials		tion, complex reaction products or
VOC	Volatile organic co	mpounds	
vPvB	Very persistent and	d very bioaccumulative	
vPvM	Very persistent and	d very mobile	
Training guidelines			
Inform the personnel about ways of handling the produced the produced by the p		vs of use, mandatory pro	tective equipment, first aid and prohibited
Recommended restriction	ons of use		
not available			

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)

Wersja 2.1 zastępuje wersję KCh z 2022-03-15. Zmian dokonano w sekcjach 9 i 15.

More information

Classification procedure - calculation method.

Statement

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. The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection.