

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008
This SDS is for generic information purposes and does not reflect required country specific information for OEL

Revision date 13-Oct-2022 Revision Number 1.01

Supercedes Date: 12-Sep-2022

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

1.1. Product identifier

Product Name FOME FLEX Mini Mounting Foam

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Building and construction work

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

UAB TEGRA STATE

Savanoriu ave 178A, LT-03154 Vilnius, LITHUANIA

Tel.:+37052661167 www.tegrastate.eu

E-mail: info@tegragroup.eu

1.4. Emergency telephone number

Emergency Telephone 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Effects on or via lactation	Yes - (H362)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 4 - (H413)
Aerosols	Category 1 - (H222, H229)

2.2. Label elements

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Contains Diphenylmethane-diisocyanate, isomers and homologues, Alkanes, C14-17, chloro



Signal word

Danger

Hazard statements

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

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

EU Specific Hazard Statements

EUH204 - Contains isocyanates. May produce an allergic reaction

EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

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 mist/vapours/spray

P263 - Avoid contact during pregnancy and while nursing

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P405 - Store locked up

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Special provisions concerning the labelling of certain mixtures

Persons already sensitised to disocyanates 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.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

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In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible. During transportation by car the cans should stand upright in the cargo space. When foaming the propellants are highly flammable. The mentioned hazards are valid for the non-reacted content of the can or of the fresh foam.

PBT & vPvB

This mixture contains substances considered to be persistent, bio-accumulating and toxic (PBT). This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

	I EON (E.	04011		0 :	I	I	DE AOL:
Chemical name	EC No (EU	CAS No.	Classification	Specific	M-Factor	M-Factor	
	Index No).		according to	concentration limit		(long-ter	registration
			Regulation (EC) No.	(SCL)		m)	number
			1272/2008 [CLP]				
Diphenylmethane-diisocy	618-498-9	9016-87-9	STOT SE 3 (H335)	STOT SE 3 :: C>=5%	-	-	[7]
anate, isomers and			STOT RE 2 (H373)	Skin Irrit. 2 :: C>=5%			
homologues			Skin Irrit. 2 (H315)	Eye Irrit. 2 :: C>=5%			
>25 - <40 %			Eye Irrit. 2 (H319)	Resp. Sens. 1 ::			
			Resp. Sens. 1 (H334)	C>=0.1%			
			Skin Sens. 1 (H317)				
			Carc. 2 (H351)				
			Acute Tox. 4 (H332)				
Alkanes, C14-17, chloro	(602-095-00-	85535-85-9	Lact. (H362)	_	100	10	01-2119519269-
20 - 25 %	X)	00000 00 0	(EUH066)		100	'0	33-XXXX
25 25 75	287-477-0		Aquatic Acute 1 (H400)				007000
			Aquatic Chronic 1 (H410)				
			' [H] ` ´				
Isobutane	(601-004-00-	75-28-5	Flam. Gas 1 (H220)	-	-	-	01-2119485395-
5 - <10 %	0)		Press. Gas (H280)				27-XXXX
	(601-004-01-						
	8)						
	200-857-2						
Dimethyl ether	(603-019-00-	115-10-6	Flam. Gas 1 (H220)	-	-	-	01-2119472128-
5 - <10 %	8)		Press. Gas (H280)				37-XXXX
	204-065-8						
Butane	(601-004-00-	106-97-8	Flam. Gas 1 (H220)	-	-	-	01-2119474691-
0.1 - <0.3 %	0)		Press. Gas (H280)				32-XXXX
	(601-004-01-						
	8)						
	203-448-7					I	1

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

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

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

[H] - Substance has endocrine disrupting properties

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value

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from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Diphenylmethane-diiso cyanate, isomers and homologues	618-498-9	9016-87-9	-	1	1.5	-	•
Alkanes, C14-17, chloro	(602-095-00-X) 287-477-0	85535-85-9	-	-	-	-	-
Isobutane	(601-004-00-0) (601-004-01-8) 200-857-2	75-28-5	-	-	-	-	-
Dimethyl ether	(603-019-00-8) 204-065-8	115-10-6	-	-	-	-	-
Butane	(601-004-00-0) (601-004-01-8) 203-448-7	106-97-8	-	-	-	-	-

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates
Alkanes, C14-17, chloro	85535-85-9	X

Notes

See section 16 for more information

Chemical name	Notes
Isobutane - 75-28-5	C,U
Dimethyl ether - 115-10-6	U
Butane - 106-97-8	C,U

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Inhalation Remove to fresh air. May cause allergic respiratory reaction. If breathing has stopped,

give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.

Eye contactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see

a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes. Do

not use solvents or thinners to dissolve the material.

Ingestion May produce an allergic reaction. Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Get immediate medical attention. Clean mouth with

water. Drink 1 or 2 glasses of water.

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Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ **Symptoms**

or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Burning sensation. Difficulty in breathing.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray.

Unsuitable extinguishing media Full water jet. DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE

STOPPED.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Product is or contains a sensitiser. May cause sensitisation by inhalation. May cause sensitisation by skin contact.

Hazardous combustion products

Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Hydrogen chloride. Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanates.

5.3. Advice for firefighters

precautions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take

precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid breathing vapours or mists.

Ventilate the area. Refer to protective measures listed in Sections 7 and 8. Other information

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or

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spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Keep out of drains, sewers, ditches and waterways. Stop leak if you can do it without

risk. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Flood with water to complete polymerization and scrape off floor.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep out of the reach of children. Keep from freezing. Keep/store only in original container. Store in a dry place. Store in a closed container. Protect from moisture.

Recommended storage temperature

Do not freeze.

7.3. Specific end use(s)

Specific use(s)

Building and construction work.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical name	European Union
Dimethyl ether	TWA: 1000 ppm
115-10-6	TWA: 1920 mg/m ³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNI	Derived No Effect Level (DNEL)			
Alkanes, C14-17, chloro (855	535-85-9)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Long term Systemic health effects	Inhalation	6.7 mg/m³		
worker Systemic health effects Long term	Dermal	47.9 mg/kg bw/d		

Dimethyl ether (115-10-6)			
Type	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	-
worker	Inhalation	1894 mg/m³	
Long term			
Systemic health effects			

Derived No Effect Level (DN	Derived No Effect Level (DNEL)			
Alkanes, C14-17, chloro (855	35-85-9)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Inhalation	2 mg/m³		
Consumer Long term Systemic health effects	Dermal	28.75 mg/kg bw/d		
Consumer Long term Systemic health effects	Oral	0.58 mg/kg bw/d		

Dimethyl ether (115-10-6)			
Туре	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	
Consumer	Inhalation	471 mg/m³	
Long term			
Systemic health effects			

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)

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Alkanes, C14-17, chloro (85535-85-9)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 μg/l
Marine water	0.2 μg/l
Microorganisms in sewage treatment	80 mg/l
Freshwater sediment	13 mg/kg dry weight
Marine sediment	2.6 mg/kg dry weight
Soil	11.9 mg/kg dry weight

Dimethyl ether (115-10-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.155 mg/l
Marine water	0.016 mg/l
Microorganisms in sewage treatment	160 mg/l
Freshwater sediment	0.681 mg/kg dry weight
Soil	0.45 mg/kg dry weight

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be

exhausted directly at the point of origin.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166.

Wear suitable gloves. Butyl rubber. Nitrile rubber. Glove thickness > 0.4 mm. The Hand protection

breakthrough time of the gloves depends on the material and the thickness as well as the

temperature. The breakthrough time for the mentioned glove material is in general

greater than 60 min. Gloves must conform to standard EN 374

Skin and body protection Respiratory protection

Wear appropriate personal protective clothing to prevent skin contact.

Ensure adequate respiratory protection during spray applications. In case of insufficient

ventilation, wear suitable respiratory equipment.

Recommended filter type: Organic gases and vapours filter conforming to EN 14387. Wear a respirator conforming

to EN 140 with Type A filter or better. AX.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Aerosol Foam Colour Yellow

Odour Characteristic. Slight. **Odour threshold** No information available

Property Values Remarks • Method

Melting point / freezing point No data available None known

Initial boiling point and boiling Not applicable, Aerosol Not applicable, Aerosol .

range

Flammability Not applicable for liquids . None known Flammability Limit in Air None known

Upper flammability or explosive 18.6 Vol%

Lower flammability or explosive 1.7 Vol%

limits

Flash point Not applicable, Aerosol . Not applicable, Aerosol

None known No data available **Autoignition temperature**

Decomposition temperature None known

No data available None known. pH (as aqueous solution) No data available None known Kinematic viscosity No data available None known

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Dynamic viscosity

No data available

Water solubility

No miscible in water.

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressure6 -7 barbar @ 23 °CRelative densityNo data availableNone known

Bulk Density
No data available
Liquid Density
0.95 g/cm³

Relative vapour density No data available None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%) No information available

VOC content No data available

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

Minimum Ignition Temperature 235 Not applicable .

(°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical None.

impact

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Conditions to avoid Product cures with moisture. Heat, flames and sparks. Excessive heat. Do not freeze.

Protect from moisture. Keep away from open flames, hot surfaces and sources of

ignition. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Water. Alcohols. Amines.

Incompatible with oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Stable under recommended storage conditions.

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SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal. Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of

respiratory tract. Harmful by inhalation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

irritation. (based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Repeated or prolonged

skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. May cause additional

affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing,

tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause

redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-vapour) >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Diphenylmethane-diisocyanate,	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg	=1.5 mg/L (Rattus) 4 h	
isomers and homologues		(Oryctolagus cuniculus)		
Alkanes, C14-17, chloro	>4000 mg/kg (Rattus)	> 2000 mg/kg (Rattus)	-	
Isobutane	-	ı	=658 mg/L (Rattus) 4 h	
Dimethyl ether	-	-	=164000 ppm (Rattus) 4 h	
Butane	-	_	=658 g/m ³ (Rattus) 4 h	

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit				Mild skin irritant

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Acute Dermal Irritation/Corrosion			

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

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

allergic skin reaction.

Diphenylmethane-diisocvanate, isomers and homologues (9016-87-9)

pripriority into an accordance of the control of an amount of accordance of the control of the c					
Method	Species	Exposure route	Results		
OECD Test No. 429: Skin	Mouse		sensitising		
Sensitisation: Local Lymph Node					
Assay					

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

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.

Component Information

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Results
OECD Test No. 453: Combined Chronic	Rat	Carcinogenic
Toxicity/Carcinogenicity Studies		-

Reproductive toxicity Classification based on data available for ingredients. May cause harm to breast-fed

children.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

The table below indicates ingredients above the cut-on threshold considered as relevant which are listed as reproductive tox				
Chemical name	European Union			
Alkanes, C14-17, chloro	Lact.			

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

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Ecotoxicity

May cause long lasting harmful effects to aquatic life. Cured foam has no C14-C17 chloroalkanes leaching in water for a maximum 20% C14-C17 chloroalkanes in mixture. Study: "Pulverized PU Foam HM23. Leaching study, Limit test" by Dr. Christine Jahns and sponsored by FEICA AISBL, 09.12.2014.

Product Information					
Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	1000 mg/L	48 hours	Harmless to aquatic organisms up to the tested concentration

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Diphenylmethane-diiso cyanate, isomers and homologues 9016-87-9	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) >1000 mg/L (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna		
Alkanes, C14-17, chloro 85535-85-9	-	LC50: >500mg/L (48h, Leuciscus idus)		EC50 (48h) = 0.007 mg/l (Daphnia magna) OECD 202	100	10
Dimethyl ether 115-10-6	-	LC50: >4.1g/L (96h, Poecilia reticulata)	-	> 4400 mg/L (Daphnia) (NEN 6501)		

12.2. Persistence and degradability

Persistence and degradability No information available.

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent	28 days	0% biodegradation	Not readily biodegradable
Biodegradability: Modified MITI Test		-	
(II)			

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Alkanes, C14-17, chloro	7
Isobutane	2.8
Dimethyl ether	-0.18
Butane	2.31

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Alkanes, C14-17, chloro	PBT & vPvB

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Isobutane	The substance is not PBT / vPvB PBT assessment does
	not apply
Dimethyl ether	The substance is not PBT / vPvB
Butane	The substance is not PBT / vPvB PBT assessment does
	not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

disposal.

European Waste Catalogue 08 05 01* waste isocyanates

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

substances

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

SECTION 14: Transport information

Note: Keep from freezing.

Land transport (ADR/RID)

14.1 UN number or ID number
14.2 Proper Shipping Name
14.3 Transport hazard class(es)
Labels
UN1950
Aerosols
2
2.1

14.4 Packing group Not regulated

Description UN1950, Aerosols, 2, (D)

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 190, 327, 344, 625

Classification code 5F Tunnel restriction code (D) Limited quantity (LQ) 1 L

IMDG

14.1 UN number or ID number
14.2 Proper Shipping Name
14.3 Transport hazard class(es)
2.1

14.4 Packing group Not regulated

Description UN1950, Aerosols, 2.1

14.5 Marine pollutant NP14.6 Special precautions for user

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Special Provisions 63,190, 277, 327, 344, 381, 959

Limited Quantity (LQ) See SP277 EmS-No F-D, S-U

14.7 Maritime transport in bulk according to IMO instruments

Supercedes Date: 12-Sep-2022

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN1950

14.2 Proper Shipping Name Aerosols, flammable

14.3 Transport hazard class(es) 2.1

14.4 Packing group Not regulated

Description UN1950, Aerosols, flammable, 2.1

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions A145, A167, A802

Limited quantity (LQ) 30 kg G ERG Code 10L

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No
Alkanes, C14-17, chloro	85535-85-9

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

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

Chemical name	CAS No	Restricted substance per REACH Annex XVII
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9	56 74.
Diisocyantes		74

56

If product supplied to the general public with substance ≥0.1%, then gloves must be provided with the product

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

Substance subject to authorisation per REACH Annex XIV

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

Dangerous substance category per Seveso Directive (2012/18/EU)

P3a - FLAMMABLE AEROSOLS P3b - FLAMMABLE AEROSOLS

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Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Diphenylmethane-diisocyanate, isomers and homologues 9016-87-9	RG 62
Alkanes, C14-17, chloro 85535-85-9	RG 73
Isobutane 75-28-5	RG 84
Dimethyl ether 115-10-6	RG 84
Butane 106-97-8	RG 84

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) obviously hazardous to water (WGK 2)

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Chemical name	Netherlands - List of Carcinogens
Alkanes, C14-17, chloro	Can be harmful via breastfeeding
85535-85-9	

Denmark

Registration number(s) (P-no.) No information available

Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

EUH066 - Repeated exposure may cause skin dryness or cracking

H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

H315 - Causes skin irritation

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H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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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

Notes relating to the identification, classification and labelling of substances

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

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)

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

AGW Occupational exposure limit value BGW Biological limit value Ceiling Maximum limit value * Skin designation

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - Vapour	Calculation method	
Acute inhalation toxicity - dust/mist	On basis of test data	
Skin corrosion/irritation	On basis of test data	
Serious eye damage/eye irritation	On basis of test data	
Respiratory sensitisation	On basis of test data	
Skin sensitisation	On basis of test data	
mutagenicity	Calculation method	
Carcinogenicity	On basis of test data	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
Acute aquatic toxicity	On basis of test data	
Chronic aquatic toxicity	On basis of test data	
Aspiration hazard	Calculation method	
Ozone	Calculation method	
Flammable aerosol	On basis of test data	

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Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

Revision date 13-Oct-2022

Training Advice AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE

INDUSTRIAL OR PROFESSIONAL USE For further information, please contact: https://www.safeusediisocyanates.eu/

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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