

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**EVO-STIK GUN APPLIED EXPANDING FOAM** 

Supercedes Date: 17-Aug-2021

Revision date 06-Jan-2023 Revision Number 3.01

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

## 1.1. Product identifier

Product Name EVO-STIK GUN APPLIED EXPANDING 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 Insulation foams

Uses advised against Consumer use

## 1.3. Details of the supplier of the safety data sheet

**Company Name** 

Bostik Romania SRL 51, Rasaritului Street (DN7) 070000 Buftea Ilfov

Romania Phone: +4

Phone: +40 372 833 300 Fax: +40 372 833 301 www.bostik.com

E-mail address SDS.box-EU@bostik.com

## 1.4. Emergency telephone number

**Emergency Telephone** 

Ireland NPIC - National Poison Information Centre

Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)

Healthcare Professionals: +353 (01) 8092566 (24 hour service)

**United Kingdom** Bostik: +44 (1785) 272650

Europe 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)
Category 3 Respiratory irritation	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 4 - (H413)

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Aerosols Category 1 - (H222, H229)

#### 2.2. Label elements

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)

P201 - Obtain special instructions before use

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 dust/fume/gas/mist/vapours/spray

P263 - Avoid contact during pregnancy and while nursing

P280 - Wear protective gloves/protective clothing and eye/face protection

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

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

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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

P403 - Store in a well-ventilated place

P501 - Dispose of contents/ container to an approved waste disposal plant

## Special provisions concerning the labelling of certain mixtures

Reserved for industrial and professional use. As from 24 August 2023 adequate training is required before industrial or professional use. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

#### **Additional information**

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

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#### 2.3. Other hazards

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**

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

## 3.2 Mixtures

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

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 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

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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	-	-	1.5	-	-
Alkanes, C14-17, chloro	(602-095-00-X) 287-477-0	85535-85-9	-	-	-	-	-
Dimethyl ether	(603-019-00-8) 204-065-8	115-10-6	-	-	-	-	-
Isobutane	(601-004-00-0) (601-004-01-8) 200-857-2	75-28-5	-	-	-	-	-

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
Dimethyl ether - 115-10-6	U
Isobutane - 75-28-5	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 contact** Rinse 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. Rinse mouth. Never give

anything by mouth to an unconscious person. Get immediate medical attention.

**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.

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## 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.

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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.

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

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 and skin contact. 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

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

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.

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

Use personal protection recommended in Section 8. For emergency responders

6.2. Environmental precautions

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

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

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to collect run-off water. Flood with water to complete polymerization and scrape off floor.

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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

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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. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse.

## 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.

## 7.3. Specific end use(s)

#### Specific use(s)

Insulation foams.

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

Other information Observe technical data sheet.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## **Exposure Limits**

Chemical name	European Union	Ireland	United Kingdom
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Diphenylmethane-diisocyanate, isomers and	-	TWA: 0.005 ppm	TWA: 0.02 mg/m <sup>3</sup>
homologues		TWA: 0.02 mg/m <sup>3</sup>	STEL: 0.07 mg/m <sup>3</sup> SEN; as
9016-87-9		STEL: 0.015 ppm STEL:	-NCO
		0.07 mg/m <sup>3</sup> (CAS 101-68-8)	
Dimethyl ether	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 400 ppm
115-10-6	TWA: 1920 mg/m <sup>3</sup>	TWA: 1920 mg/m <sup>3</sup>	TWA: 766 mg/m <sup>3</sup>
		STEL: 3000 ppm	STEL: 500 ppm
		STEL: 5760 mg/m <sup>3</sup>	STEL: 958 mg/m <sup>3</sup>
Isobutane	-	TWA: 1000 ppm (8hr)	
75-28-5		STEL: 1000 ppm	
Propane	-	STEL: 3000 ppm	
74-98-6		Simple asphyxiant	

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)					
Alkanes, C14-17, chloro (855	35-85-9)				
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)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
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	535-85-9)					
Type	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)					
Type	Exposure route	Derived No Effect Level	Safety factor		
	-	(DNEL)	-		
Consumer	Inhalation	471 mg/m³			
Long term					
Systemic health effects					

**Predicted No Effect Concentration** No information available. **(PNEC)** 

Predicted No Effect Concentration (PNEC)	
Alkanes, C14-17, chloro (85535-85-9)	

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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. Ensure that enough fresh air is

supplied to dilute and remove dusts, fumes or vapours. Between 5 and 15 air changes

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per hour are recommended, with a through draught.

Personal protective equipment

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

standard EN 166

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

breakthrough time for the mentioned glove material is in general greater than 60 min. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific

gloves. Gloves must conform to standard EN 374

Skin and body protection Respiratory protection

Wear appropriate personal protective clothing to prevent skin contact.

During spraying wear suitable respiratory equipment. In case of insufficient ventilation,

No data available

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 Do not allow into any sewer, on the ground or into any body of water.

## 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

PropertyValuesRemarks • MethodMelting point / freezing pointNo data availableNo data availableInitial boiling point and boilingNot applicable, AerosolNot applicable, Aerosol

range

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

Upper flammability or explosive 18.6 Vol%

limits

Lower flammability or explosive 1.7 Vol%

limits

Flash point Not applicable, Aerosol . Not applicable, Aerosol Autoignition temperature . Not applicable, Aerosol . No data available

Decomposition temperature

pH No data available Not applicable. Insoluble in water.

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pH (as aqueous solution)

Kinematic viscosity

No data available

Water solubility

Solubility(ies)

Partition coefficient

Vapour pressure

Ro data available

No data available

Bulk Density

Liquid Density

No data available
0.98 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 19.52% - 191.2 g/L

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** None under normal use 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. May cause sensitisation in susceptible persons. (based on components). May

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cause irritation of respiratory tract. Harmful by inhalation.

**Eye contact** Causes serious eye irritation. May cause redness, itching, and pain.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible

persons. May cause sensitisation by skin contact. Causes skin irritation.

Ingestion 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 (inhalation-dust/mist) 3.08 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)	-
Dimethyl ether	-	-	=164000 ppm (Rattus) 4 h
Isobutane	-	-	=658 mg/L (Rattus) 4 h

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

**Skin corrosion/irritation** Irritating to skin.

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
Acute Dermal					
Irritation/Corrosion					

Serious eye damage/eye irritation Causes serious eye irritation.

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Respiratory or skin sensitisation May cause sensitisation by inhalation. May cause sensitisation by skin contact.

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

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** 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** 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.

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

**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.

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

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Immobilisation Test tested concentration Chemical name Algae/aguatic Fish Toxicity to Crustacea M-Factor M-Factor plants microorganisms (long-term) Diphenylmethane-diiso ErC50 (72h) CL50 (96h) EC50 (24H) cyanate, isomers and >1640 mg/L >1000 mg/L >1000 mg/L homologues Algae (Danio rerio) Daphnia magna 9016-87-9 (scenedesmus subspicatus) (OECD 201)

Alkanes, C14-17, chloro LC50: >500mg/L EC50 (48h) = 100 10 85535-85-9 (48h, Leuciscus 0.007 mg/l (Daphnia idus) magna) OECD 202 Dimethyl ether LC50: >4.1g/L > 4400 mg/L (96h, Poecilia 115-10-6 (Daphnia) (NEN reticulata) 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

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

## 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	
Dimethyl ether	The substance is not PBT / vPvB	
Isobutane	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.

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## **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.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

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disposal.

according to EWC

Waste codes / waste designations Waste codes should be assigned by the user based on the application for which the

product was used.

**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 UN1950 Aerosols 14.2 Proper Shipping Name 14.3 Transport hazard class(es) Labels 2.1

14.4 Packing group Not regulated

Description UN1950, Aerosols, 2, (D)

14.5 Environmental hazards Not applicable 14.6 Special Provisions 327, 625, 344, 190

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

**IMDG** 

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

14.4 Packing group Not regulated

Description UN1950, Aerosols, 2.1

14.5 Marine pollutant

14.6 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 Not applicable

Air transport (ICAO-TI / IATA-DGR)

according to IMO instruments

14.1 UN number or ID number UN1950

Aerosols, flammable 14.2 Proper Shipping Name

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

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**14.6 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**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### 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

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

Not applicable

**Persistent Organic Pollutants** 

Not applicable

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## National regulations

#### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. 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

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

## 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

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

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

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

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Acute inhelation toxicity. Veneur	Coloulation mathed
Acute inhalation toxicity - Vapour	Calculation method Calculation method
Acute inhalation toxicity - dust/mist	
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated 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

### 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 06-Jan-2023

Revision note SDS sections updated 3

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

INDUSTRIAL OR PROFESSIONAL USE

Further information No information available

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

## **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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