

SPS Envirowall Ltd



Safety Data Sheet
according to (EC) 1907/2006 - Article 31

ISO No. 5788

Version 1

Date prepared: May 2022

SECTION 1 Identification of the article and of the company/undertaking

1.1 Product identifier

Trade Name: Expanding Foam
Identification of the product: Product Name: Fix & Fill Expanding Foam
Product Code: ESPS/MEGAFOAM

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

Use: Polyurethane foam

1.3 Details of the supplier of the safety data sheet

Supplier: SPS Envirowall Ltd
Unit 27 Rosevale Road
Parkhouse Industrial Estate West
Newcastle under Lyme
Staffordshire
ST5 7EF
United Kingdom
Email: info@spsenvirowall.co.uk
Telephone: 08451300983

1.4 Emergency telephone number

NHS : 111

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Effects on or via lactation	H362: May cause harm to breast-fed children.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Long-term (chronic) aquatic hazard, Category 4	H413: May cause long lasting harmful effects to aquatic life.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard Pictograms:



Signal Word: Danger

Hazard Statements: H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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 if inhaled.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention:

P202 Do not handle until all safety precautions have been read and understood.
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 or mist.
P263 Avoid contact during pregnancy and while nursing.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

Diphenylmethanediisocyanate, isomers and homologues alkanes, C14-17, chloro

Additional Labelling:

"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.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3 Composition/information on ingredients

Components						
Substance Name	CAS No	EC No	Contents by Weight %	Index Number (REGULATION (EC) No 1272/2008)	Classification (REGULATION (EC) No 1272/2008)	Classification (Other)
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	Not assigned	>= 10 - < 20	-	Acute Tox. 4; H332, Skin Irrit. 2; H315 Eye Irrit. 2; H319, Resp. Sens. 1; H334 Skin Sens. 1; H317, Carc. 2; H351 STOT SE 3; H335, STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 >= 5 % Resp. Sens. 1; H334 >= 0,1 % Skin Irrit. 2; H315 >= 5 % STOT SE 3; H335 >= 5 %	-
Isobutane	75-28-5	200-857-2	>= 10 - < 20	01-2119585395-27-XXXX	Flam. Gas 1; H220	-
Alkanes, C14-17, chloro	85535-85-9	287-477-0	>= 10 - < 20	01-2119579269-33-XXXX	Lact.H362, Aquatic Acute 1;H400 Aquatic Chronic 1; H410, EUH066 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	-
Propane	74-98-6	200-827-9	>= 2,5 - < 5	01-2119486944-21-XXXX	Flam. Gas 1; H220	-
Substances with a workplace exposure limit:						
Dimethyl Ether	74-98-6	200-827-9	>= 2,5 - < 5	01-2119486944-21-XXXX	Flam. Gas 1; H220	-

For explanation of abbreviations see section 16.

SECTION 4 First aid measures

4.1 Description of first aid measures

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: Move to fresh air.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

Eye contact: Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Ingestion: Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Asthmatic appearance
Cough
Respiratory disorder
Allergic reactions
Excessive lachrymation
Erythema
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.

Risks: Irritant effects
Sensitising effects
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
Suspected of causing cancer.
May cause harm to breast-fed children.
May cause damage to organs through prolonged or repeated exposure if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

Suitable Extinguishing media: Water spray jet
Dry powder
Foam
Carbon dioxide (CO2)

Unsuitable Extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide (CO2)
Carbon monoxide
Nitrogen oxides (NOx)
Hydrogen cyanide (hydrocyanic acid)
Chlorine compounds

5.3 Advice for fire-fighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Use water spray to cool unopened containers.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Deny access to unprotected persons.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

No information available.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharge.
Open drum carefully as content may be under pressure.
Follow standard hygiene measures when handling chemical products.

Advice on protection against fire and explosion: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on a naked flame or any incandescent material. Take precautionary measures against electrostatic discharges.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of the workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Store in accordance with local regulations.

Further information on storage stability: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Cleaning with aprotic polar solvents must be avoided. Consult most current local Product Data Sheet prior to any use.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:	Components	CAS No.	Value type (Form of exposure)	Control Parameters *	Basis *
	Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	TWA	0.02 mg/m3 (NCO)	GB EH40
			Further information: Capable of causing occupational asthma.		
			STEL	0.07 mg/m3 (NCO)	GB EH40
	Dimethyl Ether	115-10-6	TWA	1.000 ppm, 1.920 mg/m3	2000/39/EC
			Further information: Indicative		
			TWA	400 ppm, 766 mg/m3	GB EH40
			STEL	500 ppm, 958 mg/m3	GB EH40

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Biological occupational exposure limits:

Substance Name	CAS No.	Control Parameters *	Sampling Time	Basis
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	isocyanatederived diamine (Isocyanates): 1 Qmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

8.2 Exposure controls

Engineering measures: Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection: Safety glasses with side-shields conforming to EN166. Eye wash bottle with pure water.
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm)
 Contaminated gloves should be removed.
Suitable for permanent exposure: Viton gloves (0,4 mm), breakthrough time >30 min.
Skin and body protection: Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers).
Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
 Organic vapor (Type A) and particulate filter
 A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
 P1: Inert material; P2, P3: hazardous substances
 Ensure adequate ventilation, especially in confined areas.
 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9 Physical and chemical properties

Appearance: Aerosol
Colour: Varios
Boiling point/Boiling range: No data available
Flammability: Extremely flammable aerosol.
Flash point: No applicable.
Auto-ignition temperature: No data available
pH: Not applicable, substance/mixture reacts with water
Viscosity, Kinematic: Not applicable.
Vapour pressure: 5100 hPa
Density: ca. 0.937 g/cm3 (25 °C)
9.2 Other information No data available

SECTION 10 Stability and reactivity

10.1 Reactivity No dangerous reaction known under conditions of normal use.
10.2 Chemical stability The product is chemically stable.
10.3 Possibility of hazardous reactions
Hazardous reactions: Stable under recommended storage conditions.
10.4 Conditions to avoid Heat, flames and sparks.
10.5 Incompatible materials
Materials to avoid: No data available.
10.6 Hazardous decomposition products No decomposition if stored and applied as directed

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Not classified based on available information.

Components

Diphenylmethanediisocyanate, isomeres and homologues:
Acute oral toxicity: LD50 Oral (Rat): > 10.000 mg/kg
Acute inhalation toxicity: LC50: 1,5 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: Expert judgement
 Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity: LD50 Dermal (Rabbit): > 9.400 mg/kg
Skin corrosion/irritation: Causes skin irritation.

Components

Alkanes, C14-17, Chloro **Assessment:** Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: **Skin sensitisation:** May cause an allergic skin reaction.
Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity: Not classified based on available information.
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: May cause harm to breast-fed children.
STOT - single exposure: May cause respiratory irritation.
STOT - repeated exposure: May cause damage to organs through prolonged or repeated exposure if inhaled.
Aspiration toxicity: Not classified based on available information.

11.2 Information on Other Hazards

Endocrine Disrupting Properties

Product: **Assessment:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12 Ecological information

12.1 Toxicity

Product: Ecotoxicology Assessment

Chronic aquatic toxicity: May cause long lasting harmful effects to aquatic life.

Components

Diphenylmethanediisocyanate, isomers and homologues

Toxicity to fish: LC50 (Brachydanio rerio (zebrafish)): > 1.000 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants: EC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l
Exposure time: 72 h

Alkanes, C14-17, Chloro

M-Factor (Acute aquatic toxicity): 1

M-Factor (Chronic aquatic toxicity): 10

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
May cause long lasting harmful effects to aquatic life.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product: The generation of waste should be avoided or minimized wherever possible.

Empty containers or liners may retain some product residues.

This material and its container must be disposed of in a safe way.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

European Waste Catalogue: 16 05 04* gases in pressure containers (including halons) containing dangerous substances.

Contaminated packaging: 15 01 10* packaging containing residues of or contaminated by dangerous substances.

SECTION 14 Transport information

14.1 UN number

ADR/RID: UN 1950

IMDG: UN 1950

IATA: UN 1950

14.2 UN proper shipping name

ADR/RID: AEROSOLS

IMDG: AEROSOLS

IATA: Aerosols, flammable

14.3 Transport hazard class(es)

ADR: 2

IMDG: 2.1

IATA: 2.1

14.4 Packaging group

ADR: Packing group: Not assigned by regulation

Classification Code: 5F

Labels: 2.1

Tunnel restriction code: (D)

IMDG: Packing group: Not assigned by regulation

Labels: 2.1

EmS Code: F-D, S-U

IATA(Cargo): Packing instruction (cargo aircraft): 203

Packing instruction (LQ): Y203

Packing group: Not assigned by regulation

Labels: Flammable Gas

IATA(Passenger): Packing instruction (passenger aircraft): 203

Packing instruction (LQ): Y203

Packing group: Not assigned by regulation

Labels: Flammable Gas

14.5 Environmental hazards

ADR: Environmentally hazardous: No

IMDG: Marine pollutant: No

IATA(Passenger): Environmentally hazardous: No

IATA(Cargo): Environmentally hazardous: No

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable for product as supplied.

SECTION 15 Regulatory information

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

Relvent EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Diphenylmethanediisocyanate, isomers and homologues (Number on list 74, 56).

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors

Not applicable

REACH - Candidate list of Substances of Very High Concern for Authorisation (Article 59)

None of the components are listed (<=>0.1%)

REACH - List of substances subject to authorisation (annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the council concerning the export and import of dangerous chemicals.

Not applicable

REACH information

All substances contained in our products are
- registered by our upstream suppliers, and/or
- registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major accident hazards involving dangerous substances.
P3a - Flammable Aerosols.

SECTION 15 Regulatory information CONT....

Volatile Organic Compounds:

Law on the incentive tax for volatile organic compounds (VOVC)
Volatile organic compounds (VOC) content: 22.97% w/w

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 22.97% w/w,

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, Safety and Environmental regulation/legislation specific for the substance or mixture

Environmental Protection Act 1990 & Subsidiary Regulations
Health & Safety at Work Act 1974 & Subsidiary Regulations
Control of Substances Hazardous to Health Regulations (COSHH)
Maybe subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.
75/324/EEC

Other regulations

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16 Other information

Full text of H-Statements

H220: Extremely flammable gas
H315: Causes Skin Irritation
H317: May cause 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 if inhaled.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox: Acute toxicity
Aquatic Acute: Short term (acute) aquatic hazard
Aquatic Chronic: Long term (chronic) aquatic hazard
Carc: Carcinogenicity

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

SPS Envirowall Ltd nor any other subsidiary of the Benx Group will be held accountable for any damage resulting from handling or from contact with the above product. This data sheet and the information it contains is not intended to supersede any terms or conditions of sale and does not constitute a specification. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or applicable laws or regulations.