

EVO-STIK EXPANDING FOAM
Supersedes Date: 29-Jun-2016

Revision Date 07-Jul-2016
Version 1.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name EVO-STIK EXPANDING FOAM
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

Bostik Industries Limited
Newtown, Swords
Co. Dublin Ireland
Tel: +353 (1) 8624900
Fax: +353 (1) 8402186

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

1.4. Emergency telephone number

Emergency Telephone

United Kingdom	+44 (1785) 272650
Ireland	+353 (1) 8624900 (Monday- Friday 9am-5pm)

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

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

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	Effects on or via lactation - (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)
Flammable Aerosol	Category 1 - (H229)

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity
Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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Contains Isocyanic acid, polymethylenepolyphenylene ester, 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
EUH204 - Contains isocyanates. May produce an allergic reaction

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
P103 - Read label before use
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P263 - Avoid contact during pregnancy/while nursing
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents/containers in accordance with local regulations

Special provisions concerning the labelling of certain mixtures

This product requires tactile warnings if supplied to the general public

2.3. Other Hazards

General Hazards

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible.

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

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This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Isocyanic acid, polymethylenepolyphenylene ester	-	9016-87-9	40 - <80	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)	Exempt
Alkanes, C14-17, chloro	287-477-0	85535-85-9	10 - <20	Lact. (H362) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH066)	01-2119519269-33-XXXX
Propane	200-827-9	74-98-6	10 - <20	Flam. Gas 1 (H220) Press. Gas	01-2119486944-21-XXXX
Isobutane	200-857-2	75-28-5	10 - <20	Flam. Gas 1 (H220) Press. Gas	01-2119485395-27-XXXX
Dimethyl ether	204-065-8	115-10-6	10 - <20	Flam. Gas 1 (H220) Press. Gas	01-2119472128-37-XXXX

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	In case of accident or being unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult. Call a doctor immediately.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a doctor.
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. If symptoms persist, call a doctor.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a doctor.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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

Symptoms	Dizziness, Headache, Coughing and/ or wheezing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Keep victim warm and quiet. Treat symptomatically.
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Section 5: FIRE-FIGHTING MEASURES

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5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO₂. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

Unsuitable Extinguishing Media

Full water jet

5.2. Special hazards arising from the substance or mixture

Some may burn but none ignite readily. Ruptured cylinders may rocket.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Hydrogen chloride. Hydrogen cyanide.

5.3. Advice for firefighters

Caution! Container under pressure. Heating causes rise in pressure with risk of bursting. Cool container with water spray. Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Remove all possible sources of ignition in the surrounding area. Ensure adequate ventilation, especially in confined areas.

Ventilate the area.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Use water spray to reduce vapours or divert vapour cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Methods for Containment

Dyke to collect large liquid spills. Dyke for later disposal; do not apply water unless directed to do so.

Methods for cleaning up

Do not direct water at spill or source of leak. Cleaning agent: Acetone.

6.4. Reference to other sections

Reference to other sections

Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

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7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 10 - 35 °C. Observe local regulations / instructions for storage of pressurized containers.

7.3. Specific end use(s)

Specific Use(s)

Foam. Sealant.

Other Information

Recommendation(s); Observe technical data sheet

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	Ireland	United Kingdom
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	-	TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³	STEL: 500 ppm STEL: 958 mg/m ³ TWA: 400 ppm TWA: 766 mg/m ³
Propane 74-98-6	-	TWA: 1000 ppm STEL: 3000 ppm As	-
Isobutane 75-28-5	-	TWA: 1000 ppm (8hr) STEL: 1000 ppm	-

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Tight sealing safety goggles. Face protection shield.

Hand Protection

Wear protective gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Skin and Body Protection

Wear fire/flammable resistant/retardant clothing. Suitable protective clothing.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment.

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	Aerosol
Appearance	Foam
Colour	Light yellow
Odour	Characteristic
Odour Threshold	No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling Point	Not applicable, Aerosol	
Flash Point	Not applicable, Aerosol	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper Flammability Limit	16 vol%	
Lower Flammability Limit	3 vol%	
Vapour Pressure	600	kPa
Vapour Density	No information available	
Specific Gravity	No information available	
Water Solubility	Immiscible in water	
Solubility in Other Solvents	No information available	
Partition Coefficient	No information available	
Autoignition Temperature	235 °C / 455 °F	
Decomposition Temperature	No information available	
Explosive Properties	No information available	
Explosive Limits	No information available	
Upper	No information available	
Lower	No information available	
Oxidising Properties	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
9.2. Other information		
Softening Point	No information available	
Molecular Weight	No information available	
Solvent content (%)	No information available	
Solid content (%)	No information available	
Density	0.951 g/cm ³	
Bulk Density	No Data Available	
VOC content (%)	20.65 %	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Strong oxidising agents. Acid anhydrides. Strong acids. Water.

10.6. Hazardous decomposition products

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

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information

Harmful by inhalation.

Inhalation	No Data Available.
Eye contact	No Data Available.
Skin Contact	No Data Available.
Ingestion	No Data Available.
Sensitisation	No Data Available.

Component Information

Toxicity Data

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester	= 49 g/kg (Rat)	> 9400 mg/kg (Rabbit)	= 490 mg/m ³ (Rat) 4 h
Alkanes, C14-17, chloro	= 2000 mg/kg (Rat)	-	-

Skin Corrosion/Irritation	Irritating to skin.
Serious eye damage/eye irritation	Irritant effect on the eyes.
Sensitisation	Isocyanates are known to be strong sensitisers.
Germ Cell Mutagenicity	Not applicable.
Carcinogenicity	Contains a known or suspected carcinogen.
Reproductive Toxicity	May cause harm to breastfed babies.
STOT - Single Exposure	Respiratory system.
STOT - Repeated Exposure	No information available.
Target Organ Effects	Heart, Central nervous system.
Aspiration Hazard	No information available.
Unknown acute toxicity	0 % of the mixture consists of ingredient(s) of unknown toxicity

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity	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 May cause long lasting harmful effects to aquatic life
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Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea
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Isocyanic acid, polymethylenepolyphenylene ester	-	CL50 (96h) >1000 mg/L Fish (Danio rerio)	-
Alkanes, C14-17, chloro	-	LC50 48 h > 500 mg/L (Leuciscus idus static)	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other Adverse Effects

No information available

Endocrine Disruptor Information

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Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Alkanes, C14-17, chloro	Group III Chemical	

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Improper disposal or reuse of this container may be dangerous and illegal.
European Waste Catalogue	08 05 01* waste isocyanates 16 05 04* gases in pressure containers (including halons) containing dangerous substances
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

ADR

14.1 UN/ID no	UN1950
14.2 Proper Shipping Name	Aerosols, Environmentally Hazardous
14.3 Hazard Class	2.2
Hazard Labels	2.2
14.4 Packing Group	Not regulated
Description	UN1950, Aerosols, Environmentally Hazardous, 2.2, (E)
14.5 Environmental Hazard	yes
14.6 Special Provisions	327, 625, 344, 190
Classification Code	5A

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Tunnel restriction code (E)
Limited Quantity (LQ) 1 L

IMDG

14.1 UN/ID no UN1950
14.2 Proper Shipping Name Aerosols, Marine Pollutant
14.3 Hazard Class 2
14.4 Packing Group Not regulated
Description UN1950, Aerosols, Marine Pollutant, 2
14.5 Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
14.6 Special Provisions 63,190, 277, 327, 344, 959
Limited Quantity (LQ) See SP277
EmS-No F-D, S-U
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

RID

14.1 UN/ID no UN1950
14.2 Proper Shipping Name Aerosols, Environmentally Hazardous
14.3 Hazard Class 2.2
14.4 Packing Group Not regulated
Description UN1950, Aerosols, Environmentally Hazardous, 2.2
14.5 Environmental Hazard yes
Classification Code 5A
14.6 Special Provisions None
Limited Quantity (LQ) 1 L

ICAO (air)

14.1 UN/ID no Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Hazard Class Not regulated
14.4 Packing Group Not regulated
14.5 Environmental Hazard yes
14.6 Special Provisions None

IATA

14.1 UN/ID no UN1950
14.2 Proper Shipping Name Aerosols, flammable
14.3 Hazard Class 2.1
14.4 Packing Group Not regulated
Description UN1950, Aerosols, flammable, 2.1
14.5 Environmental Hazard yes
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)

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EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

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

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

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

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H362 - May cause harm to breast-fed children
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure if inhaled
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer if inhaled
H332 - Harmful if inhaled
EUH066 - Repeated exposure may cause skin dryness or cracking

Legend

SVHC: Substances of Very High Concern for Authorisation: Substance(s) of Very High Concern
PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
STOT (RE): Specific target organ toxicity - Repeated exposure
STOT (SE): Specific target organ toxicity - Single exposure
EWC: European Waste Catalogue

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 07-Jul-2016

Indication of changes

Revision Note SDS sections updated: 2, 4, 8, 15.

Training Advice No information available

Additional information No information available

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

Disclaimer

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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 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