

**BOSTIK PU FOAM LOW MDI**  
Supersedes Date: No information available

Revision Date 25-Feb-2016  
Version 1

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

### 1.1. Product Identifier

**Product Name** BOSTIK PU FOAM LOW MDI  
**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 BV  
De Voerman 8  
PO Box 303  
5215 MH's-Hertogenbosch, The Netherlands  
Tel: +31 736 244 244  
Fax: +31 736 244 344

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

### 1.4. Emergency telephone number

**Emergency Telephone** No information available

## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

Aspiration toxicity	Not classified
Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Acute toxicity - Inhalation (Gases)	Not classified
Acute toxicity - Inhalation (Vapours)	Not classified
Acute toxicity - Inhalation (Dusts/Mists)	Not classified
Skin Corrosion/Irritation	Not classified
Serious eye damage/eye irritation	Not classified
Respiratory sensitisation	Not classified
Skin sensitisation	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Acute aquatic toxicity	Not classified for acute
Chronic aquatic toxicity	Not classified chronic
Ozone	Not classified
FLAMMABLE AEROSOLS	Category 1 - (H222)
FLAMMABLE AEROSOLS	Category 3 - (H229)

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Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity  
Unknown aquatic toxicity 10% of the mixture consists of component(s) of unknown hazards to the aquatic environment

## 2.2. Label Elements

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



**Signal Word**  
DANGER

#### Hazard statements

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)

P103 - Read label 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/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  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

## 2.3. Other Hazards

#### General Hazards

No information available.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Propylene carbonate	203-572-1	108-32-7	10 - <20	Eye Irrit. 2 (H319)	01-2119537232-48-XXXX
Isobutane	200-857-2	75-28-5	10 - <20	Flam. Gas 1 (H220) Press. Gas	01-2119485395-27-XXXX
Ethyl acetate	205-500-4	141-78-6	10 - <20	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	01-2119475103-46-XXXX
Dimethyl ether	204-065-8	115-10-6	10 - <20	Flam. Gas 1 (H220) Press. Gas	01-2119472128-37-XXXX
1,1-Difluoroethane	200-866-1	75-37-6	10 - <20	Press. Gas (H280) Flam. Gas 1 (H220)	01-2119474440-43-XXXX
2-Propanol, 1-chloro-,	237-158-7	13674-84-5	5 - <10	Acute Tox. 4 (H302)	01-2119480419-30-XXXX

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phosphate (3:1)					
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Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL.

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice</b>	In case of accident or being unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).
<b>Inhalation</b>	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. Keep eye wide open while rinsing. If symptoms persist, call a doctor.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	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** None known.

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

**Note to doctors** Keep victim warm and quiet.

## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO<sub>2</sub>. 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. Nitrogen oxides (NO<sub>x</sub>). 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.

## 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.

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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** Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimise spreading or contact with rain.

**Methods for cleaning up** Do not direct water at spill or source of leak.

## **6.4. Reference to other sections**

**Reference to other sections** 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.

#### **General Hygiene Considerations**

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

### **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)**

#### **Other Information**

Recommendation(s); Observe technical data sheet

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

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

<b>Chemical Name</b>	<b>European Union</b>
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

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

### **8.2. Exposure controls**

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**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

## Personal Protective Equipment

**Eye/Face Protection**

Tight sealing safety goggles. Face protection shield.

**Hand Protection**

Gloves made of plastic or rubber. 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.

**Skin and Body Protection**

Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.

**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

**Appearance** Aerosol Foam  
**Colour** White  
**Odour** Characteristic  
**Odour Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling Point	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
Vapour Pressure	No information available	
Vapour Density	No information available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in Other Solvents		
Partition Coefficient	No information available	
Autoignition Temperature	460 °C / 860 °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** 1.03 g/cm<sup>3</sup>  
**Bulk Density** No Data Available  
**VOC content (%)**

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions.

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## 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.

## 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride. Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide.

## **Section 11: TOXICOLOGY INFORMATION**

### 11.1. Information on toxicological effects

#### **Product Information**

Harmful by inhalation.

<b>Inhalation</b>	No Data Available.
<b>Eye contact</b>	No Data Available.
<b>Skin Contact</b>	No Data Available.
<b>Ingestion</b>	No Data Available.

#### Component Information

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Propylene carbonate	= 29000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	-
Ethyl acetate	= 5620 mg/kg ( Rat )	> 18000 mg/kg ( Rabbit ) > 20 mL/kg ( Rabbit )	LC0 29.3 mg/l air
2-Propanol, 1-chloro-, phosphate (3:1)	= 1500 mg/kg ( Rat )	= 1230 mg/kg ( Rabbit )	= 5 mg/L ( Rat ) 4 h

**Skin Corrosion/Irritation** Not applicable.

**Serious eye damage/eye irritation** Not applicable.

**Sensitisation** Not applicable.

**Germ Cell Mutagenicity** Not applicable.

**Carcinogenicity** Not applicable.

**Reproductive Toxicity** No information available.

**STOT - Single Exposure** No information available.

**STOT - Repeated Exposure** No information available.

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**Target Organ Effects** Heart.

**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** No information available

### Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Propylene carbonate	EC50 72 h > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h > 1000 mg/L (Cyprinus carpio semi-static) LC50 96 h = 5300 mg/L (Leuciscus idus static)	EC50 48 h > 500 mg/L (Daphnia magna)
Ethyl acetate	EC50 48 h = 3300 mg/L (Desmodesmus subspicatus)	LC50 96 h 220 - 250 mg/L (Pimephales promelas flow-through) LC50 96 h = 484 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h 352 - 500 mg/L (Oncorhynchus mykiss semi-static)	EC50 48 h = 560 mg/L (Daphnia magna Static)
2-Propanol, 1-chloro-, phosphate (3:1)	EC50 72 h = 45 mg/L (Desmodesmus subspicatus) EC50 96 h = 4 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h = 56.2 mg/L (Brachydanio rerio static) LC50 96 h = 98 mg/L (Pimephales promelas static) LC50 96 h = 30 mg/L (Poecilia reticulata static) LC50 96 h = 180 mg/L (Leuciscus idus static)	EC50 48 h = 63 mg/L (Daphnia magna)

### 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. Autres effets néfastes

No information available

### Endocrine Disruptor Information

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

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

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

## Section 14: TRANSPORT INFORMATION

### ADR

<b>14.1 UN/ID no</b>	UN1950
<b>14.2 Proper Shipping Name</b>	Aerosols
<b>14.3 Hazard Class</b>	2.2
<b>Hazard Labels</b>	2.2
<b>14.4 Packing Group</b>	Not regulated
<b>Description</b>	UN1950, Aerosols, 2.2, (E)
<b>14.5 Environmental Hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	327, 625, 344, 190
<b>Classification Code</b>	5A
<b>Tunnel restriction code</b>	(E)
<b>Limited Quantity (LQ)</b>	1 L

### IMDG

<b>14.1 UN/ID no</b>	UN1950
<b>14.2 Proper Shipping Name</b>	Aerosols
<b>14.3 Hazard Class</b>	2
<b>14.4 Packing Group</b>	Not regulated
<b>Description</b>	UN1950, Aerosols, 2
<b>14.5 Marine Pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	63,190, 277, 327, 344, 959
<b>Limited Quantity (LQ)</b>	See SP277
<b>EmS-No</b>	F-D, S-U
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

### RID

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

### ICAO (air)

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

### IATA

<b>14.1 UN/ID no</b>	UN1950
<b>14.2 Proper Shipping Name</b>	Aerosols, flammable
<b>14.3 Hazard Class</b>	2.1



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<b>14.4 Packing Group</b>	Not regulated
<b>Description</b>	UN1950, Aerosols, flammable, 2.1
<b>14.5 Environmental Hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	A145, A167, A802
<b>Limited Quantity (LQ)</b>	30 kg G
<b>ERG Code</b>	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)

##### **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)

#### **Restrictions on use**

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

Chemical Name	CAS No	Restrictions on use
Isobutane	75-28-5	28. 29.

##### **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**

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapour

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

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## **Key literature references and sources for data**

No information available

**Prepared By** Product Safety & Regulatory Affairs

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## **Indication of changes**

**Revision Note** Not applicable.

**Training Advice** No information available

**Further information** No information available

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

## **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 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**