Premfire B2 Elastic Gun Foam

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 Product Name

Premfire B2 Elastic Gun Foam 750ml

1.2 Relevant identified uses of the mixture and uses advised against

Relevant uses: Foam

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier Information

Premier Sealant Systems Ltd., Mercia Way, Foxhills Industrial Park, Scunthorpe, North Lincolnshire, DN15 8RE

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLP Regulation (EC) No 1272/2008

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008

Acute Tox. 4	Acute toxicity if swallowed, Category 4, H302
Aerosol 1	Pressurised container: May burst if heated, H229
Aerosol 1	Flammable Aerosols, Category 2, H222
Carc. 2	Carcinogenicity, Category 2, H351
Eye Irrit. 2	Eye Irritation, Category 2, H319
Resp. Sens. 1	Sensitisation, Respiratory, Category 1, H334
Skin Irrit. 2	Skin Irritation, Category 2, H315
Skin Sens. 1	Sensitisation, Skin, Category 1, H317
STOT RE 2	Specific target organ toxicity, repeated exposure, Category 2, H373
STOT SE 3	Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label Elements

CLP Regulation (EC) No 1272/2008

Danger

2.2.1 Hazard Statements

H222	Extremely flammable aerosol
H229	Pressurised container: May burst if heated
H302	Harmful if swallowed
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
H373	May cause damage to organs through prolonged or repeated exposure

2.2.2 Precautionary Statements

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
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
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 the contents/containers in accordance with the current legislation on waste treatment

2.2.3 Supplementary Information

EUH204: Contains isocyanates. May produce an allergic reaction

2.2.4 Substances that contribute to the classification

4,4' – methylenediphenyl diisocyanate, isomers and homologues

2.3 Other Hazards

Product fails to meet PBT/vPvB criteria

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances – Classification of Substances

CAS-nr.	Chemical Name	Content	Classification	
		Max.	According Directive 67/548/EEC	According Regulation 1272/2008 (CLP)
9016-87-9	Diphenylmethane – 4' ,4' - diisocyanate	40%	Xn; R20 R36/37/38 R42/43 R40 R58/20	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2, H319 Resep. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373
75-28-5	Isobutane	8%	F+; R12	Flam. Gas 1; H220 Press. Gas; H280
74-98-6	Propane	4%	F+; R12	Flam. Gas 1; H220 Press. Gas; H280
115-10-6	Dimethylether	4%	F+; R12	Flam. Gas 1; H220 Press. Gas; H280

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Skin Contact	Wash off with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Contact with Eyes	Rinse eyes immediately with plenty of water, keeping the eye open. Seek medical attention.
Ingestion	Do not induce vomiting or give water to drink. Seek medical attention and show product label.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Irritating to respiratory system.
Skin Contact	Irritating to skin.
Contact with Eyes	Irritating to eyes.
Ingestion	May cause suffocation and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

As a general rule, and in all cases of doubt of when symptoms persist, always seek medical attention.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

5.1.1 Suitable Extinguishing Media	Use extinguishing media appropriate the surrounding fire conditions. Use as appropriate: water spray, dry extinguishing media, foam and carbon dioxide.
5.1.2 Unsuitable Extinguishing Media	DO NOT to use full jet water as an extinguishing agent.
5.2 Special Hazards Arising from the Mixture	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
5.3 Advice for Fire-fighters	Use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and

equipment should be available (fire blankets, portable first aid kit,...). Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders: Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental Precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and Material for Containment and Cleaning Up

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

7. HANDLING AND STORAGE

7.1 Precaution for Safe Handling

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

7.1.1 Protective Measures

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

7.1.2 Advice on General Occupational Hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep in a cool, dry, well-ventilated area. Avoid sources of heat, radiation, static electricity and contact with food.

7.3 Specific end use(s)

Field of application of the product is described in Technical data sheet (TDS).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Occupational exposure limit value

Components	CAS-No.	Type Form of Exposure	Control Parameters
Dimethyl Ether	115-10-6	TWA	1920 mg/m^3 1000 ppm
Diphenylmethane – 4' ,4' - diisocyanate	9016-87-9	No information	0,05 mg/m^3 8 hours 0.005 ppm 8 hours
Propane	74-98-6	No information	Short time: 2000 mg/m^3, 1100 ppm Long time: 1500 mg/m^3, 800 ppm
Butane	106-97-8	No information	Short time: 1810 mg/m^3, 750 ppm Long time: 1450 mg/m^3, 600 ppm

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/Face Protection	During the work make use of protective goggles.
Skin Protection	During the work make use of protective chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and microorganisms.
Respiratory Protection	Use the product only in well-ventilated rooms. Do not inhale fumes. When using in poorly ventilated area, wear a suitable filter of the mask (i.e. Type A1 in accordance with EN 14387).

8.2.3 Environmental Exposure Controls

Do not let into environment. May cause long-term adverse effects in the aquatic environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Pale beige
Odour	Characteristic
pH	Not applicable
Melting Point / Freezing Point	Not relevant
Boiling Point	Over +100°C
Flash Point	Below -20°C
Evaporation Rate	Not relevant
Flammability	Above +100°C
Explosion Limits	Low: 2% vol, High: 10% vol
Vapor Pressure	5 Bar/+20°C 10 Bar/+50°C
Vapor Density	Not applicable
Relative Density	1.1 g/ml/+20°C
Solubility in Water	Insoluble
Solubility in other solvents	In acetone soluble
Partition Coefficient: n-octanol/water	Not applicable

Auto-ignition Temperature	Not applicable
Decomposition Temperature	+200°C

Viscosity	ca 500 cP/+20°C
Explosive Properties	Contains flammable gases
Oxidising Properties	Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity

The mixture is not reactive under recommended storage and handling conditions (see Section 7).

10.2 Chemical Stability

The mixture is stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of Hazardous Reactions

In case of fire, the product can create corrosive and hazard gases.

10.4 Conditions to Avoid

An aerosol container is under pressure, do not expose to heat. Do not store in the sun, and not more than +50°C. Do not break or burn even after use. Should not be sprayed on an open flame, or any incandescent material.

10.5 Incompatible Materials

Avoid strong acids and direct impact with oxidising materials. Avoid alkalis or strong bases.

10.6 Hazardous Decomposition Products

In case of fire, the product can create corrosive and hazard gases.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

11.1.1 Substances

11.1.1.1 The relevant hazard classes for which information shall be provides, are:

(a) Acute Toxicity

	Dimethyl Ether	Diphenylmethane – 4' ,4' - diisocyanate	Isobutane/Propane
Acute Oral Toxicity	Not applicable	LD50 (rat): > 2.000 mg/kg	Not applicable

Acute Dermal Toxicity	Not applicable	Not applicable	Not applicable
Acute Inhalation Toxicity	LC50 (rat): 164 000 pp, Respiratory effects Anaesthetic effects Central nervous system depression narcosis Cardiac irregularities Coma.	LC50 (rat): 490 mg/m^3 4h Tested substance: Aerosol Saturated vapour concentration at 25°C: 0,09 mg/m^3	Not applicable

(b) Skin Corrosion/Irritation

	Dimethyl Ether	**Diphenylmethane – 4' ,4' - diisocyanate**	**Isobutane/Propane**
Skin Irritation	Not tested on animals Classification: Not classified as irritant Result: No skin irritation Not expected to cause skin irritation based on expert review of the properties of the substance.	Rabbit Result: No skin irritation Method: OECD test guide 404	No skin irritation

(c) Serious Eye Damage/Irritation

	Dimethyl Ether	**Diphenylmethane – 4' ,4' - diisocyanate**	**Isobutane/Propane**
Eye Irritation	Not tested on animals Classification: Not classified as irritant Result: No eye irritation Not expected to cause eye irritation based on expert review of the properties of the substance.	Rabbit Result: No eye irritation Method: OECD test guide 405	No eye irritation

(d) Respiratory or Skin Sensitization

	Dimethyl Ether	**Diphenylmethane – 4' ,4' - diisocyanate**	**Isobutane/Propane**
Sensitization	Not tested on animals Classification: Not a skin sensitizer Not expected to cause eye irritation based on expert review of the properties of the substance.	Result: May cause sensitization by inhalation and skin contact Isocyanate vapor may cause asthmatic allergy	No sensitization effect

(e) Germ Cell Mutagenicity

	Dimethyl Ether	Diphenylmethane – 4' ,4' - diisocyanate	Isobutane/Propane
Germ Cell Mutagenicity	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.	Lack of data	Not applicable

(f) Carcinogenicity

	Dimethyl Ether	Diphenylmethane – 4' ,4' - diisocyanate	Isobutane/Propane
Carcinogenicity	Animal testing did not show any carcinogenic effects.	Lack of data	Not applicable

(g) Reproductive Toxicity

	Dimethyl Ether	Diphenylmethane – 4' ,4' - diisocyanate	Isobutane/Propane
Reproductive Toxicity	No toxicity on reproduction. May cause cardiac arrhythmia, Rapid evaporation of the liquid may cause frostbite.	Lack of data	Not applicable

(h) STOT – Single Exposure – Lack of data.

(i) STOT – Repeated Exposure – Lack of data.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

	Dimethyl Ether	Diphenylmethane – 4' ,4' - diisocyanate	Isobutane/Propane
Toxicity to Fish	LC50 / 96h / Poecilia reticulate (guppy): > 4000 mg/l	LC50 / 96h / danio rerio: > 1.000 mg/l Method: OECD Test Guide 203	Not applicable

Toxicity to Aquatic Invertebrates	EC50 / 48h / Daphnia: > 4000 mg/l LC50 / 48h / Daphnia: 755,5 mg/l	EC50 / 24h / Daphnia magna: > 1.000 mg/l Method: OECD Test Guide 202	Not applicable
Chronic Toxicity to Fish	Due to its physical properties, there is now potential for adverse effects.	Lack of data	Lack of data
Toxicity to Bacteria	Lack of data	EC50 / 3h / Activated sludge: > 100 mg/l Method: OECD Test Guide 209	Lack of data

12.2 Persistence and Degradability

	Dimethyl Ether	**Diphenylmethane – 4' ,4' - diisocyanate**	**Isobutane/Propane**
Persistence and Degradability	Method: Closed Bottle test According to the results of tests of biodegradability this product is not readily biodegradable.	Biodegradability 28 days 0%. Method: OECD Test Guide 302 C	Not applicable

12.3 Bio-accumulative Potential

	Dimethyl Ether	**Diphenylmethane – 4' ,4' - diisocyanate**	**Isobutane/Propane**
Bioaccumulation	No data available	No data available	Not applicable

12.4 Mobility in Soil

	Dimethyl Ether	**Diphenylmethane – 4' ,4' - diisocyanate**	**Isobutane/Propane**
Mobility in Soil	Koc: 7,759	No data available	Not applicable

12.5 Results of PBT and vPvB Assessment

	Dimethyl Ether	Diphenylmethane – 4' ,4' - diisocyanate	Isobutane/Propane
PBT and vPvB Assessment	This substance is not considered to be persistent, bio accumulating nor toxic (PBT). The substance is not considered to be very persistent nor very bio accumulating (vPvB).	No data available	Not applicable

12.6 Other Adverse Effects

Dimethyl Ether	Diphenylmethane – 4' ,4' - diisocyanate	Isobutane/Propane
Ozone depletion potential: 0 Global warming potential (GWP): 1	Not applicable	Not applicable

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product/Packaging Disposal

The product and packages must be handled in accordance with national and local requirements.

13.1.2 Waste Treatment Options

Foam bottles are recyclable.

13.2 Additional Information

No specific recommendations.

14. TRANSPORT INFORMATION

14.1 UN Number	1950
14.2 Packing Group	Not known
14.3 Road ADR	Inflammable aerosol Class 2/5F
14.4 Railway RID	Inflammable aerosol Class 2/5F
14.5 Transport by sea GGVSee/IMDG-Code	Aerosol Class 2
14.6 Air Transport ICAO-TI/IATA-DGR	-

15. REGULATORY INFORMATION

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

Not applicable

15.2 Chemical Safety Assessment

Chemical safety assessment has been carried out for dimethyl ether and still at work for diphenylmethane – 4' ,4' – diisocyanate.

16. OTHER INFORMATION

16.1 Date of preparation of the latest version of the SDS

Written in the beginning of the safety data sheet.

16.2 Abbreviations and Acronyms

TWA	Time Weighted Average
LC50	Lethal Concentration Medium
EC50	Effective Concentration Medium
STOT	Specific target organ toxicity
PBP	Persistent, bio accumulative and toxic
vPvB	Very persistent very bio accumulative
Acute Tox. 4	Acute Toxicity: Inhaled – Category 4
Carc. 2	Carcinogenicity – Category 2
Eye Irrit. 2	Serious eye damage/eye irritation – Category 2
Resp. Sens. 1	Respiratory sensitization – Category 1
Skin Irrit. 2	Skin corrosion/irritation – Category 2
Skin Sens. 1	Skin sensitization – Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure): Inhalation – Category 2
STOT SE 3	Specific target organ toxicity (single exposure): Inhalation – Category 3
Flam. Gas 1	Flammable Gas – Category 1
Press. Gas	Gases under pressure

16.3 Key literature references and sources of data

The safety data sheet meets the requirements of the European Parliament and Council Regulation (EC) No. 1907/2006 and the Chemicals Act of the Republic of Estonia and regulation No 130 of Minister of Social Affairs.

16.4 Classification and classification procedure used for mixtures

16.5 Relevant R-phrases and/or H-statements (specified in clause 3)

According Directive 67/548/EEC

R12	Extremely flammable
R20	Harmful by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R40	Limited evidence of a carcinogenic effect
R42/43	May cause sensitization by inhalation and skin contact
R48/20	Harmful: Danger of serious damage to health by prolonged exposure through inhalation

According Regulation 1272/2008 (CLP)

H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H315	Cause 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
H373	May cause damage to organs through prolonged or repeated exposure if inhaled

16.6 Training Advice

No specific recommendations.

16.7 Further Information

No specific recommendations.