



MATERIAL SAFETY DATA SHEET

Based on Regulation (EC) No. 1907/2006 (REACH) Article 31 Annex II

Hand Held and Gun Applied B2 Expanding Foam

1. Identification of the substance/preparation and the company/undertaking

1.1 Identification of the substance or preparation

B2 PU Foam

1.2 Use of the substance/preparation

Construction chemicals
Assembly foam

1.3 Company/undertaking preparation

JCP Construction Products
Unit 14 Teddington Business Park
Teddington, Middlesex TW11 9BQ
Tel +44 208 943 1800
Fax +44 208 943 1140

1.4 Telephone number for emergencies

+44 208 943 1800 (0830 to 1700hrs Monday to Friday)

1.5 email

jcpenquiries@owlett-jaton.com

2. Hazards identification

Hazard description



Xn Harmful
F+ Extremely flammable

Combustible gas, heavier than air; can accumulate on flat surfaces and in lower parts of rooms.

Foam sticks easily to the skin and other surfaces.

The product is labelled as laid down in the latest version of the "General Classification Guidelines for Preparations in the EU"

Warning! Pressurized container

R20 Harmful by inhalation

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of carcinogenic effect

R42/43 May cause sensitisation by inhalation and skin contact

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation

R53 May cause long term adverse effects in the aquatic environment

Contains isocyanates. See information supplied by manufacturer.

May cause harm to breastfeeding babies

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after 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 in areas of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to EN14387) is used.

Keep away from sources of ignition - No Smoking

Do not spray on a naked flame or incandescent material

Keep out of reach of children.

The classification is in line with current EC lists. It is extended by information from technical literature and company information.

Classification of the preparation in respect of phrase R53, taking into account the content of C14-C17 chlorinated alkanes, was made on the basis of acute toxicology tests performed on daphnia Daphnia magna and algae report BMG study no. A10-00856 and BMG study no. A10-00857



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3. Composition/information on ingredients

Hazardous Ingredients	CAS No. EINECS No.	Conc. In %	Hazard symbol	Risks (R-phrases)
polymethylene polyphenyl polyisocyanate, isomers and homologues	9016-87-9	30.0-60.0	Xn, Xi	20-36/37/38-40-42/43-48/20
tris(2-chlorisopropyl)-phosphate	13674-84-5	<25.0	Xn	22
alkanes, C14-17, chloro	855535-85-9 287-477-0	<20.0	N	50/53-64-66
propane	74-98-6 200-827-9	<15.0	F+	12
butane	106-97-8 203-448-7	<15.0	F+	12
isobutane	75-28-5 200-857-2	<15.0	F+	12
dimethyl ether	115-10-6 204-065-8	,10	F+	12

Additional information: For the wording of the listed risk phrases refer to section 16

4. First aid measures

4.1 After inhalation

Supply fresh air. If required, provide rescue breaths. Keep patient warm. Consult doctor if symptoms persist.

4.2 After skin contact

Remove uncured foam using lint free cloth and an unaggressive solvent, e.g. ethanol. Wash hands and cleaned skin surface using soapy water. Cured foam can be removed mechanically with the use of a brush, soap and plenty of water. Use protective cream after skin surface has been cleaned

4.3 After eye contact

Rinse open eye for several minutes under running water and consult a doctor.

4.4 After swallowing

Do not induce vomiting. Seek medical help immediately
Rinse out mouth and drink plenty of water.

5. Fire-fighting measures

5.1 Suitable extinguishing media

Quantities of water
Polyvalent foam
BC powder
Carbon dioxide

5.2 Unsuitable extinguishing media

None

5.3 Special hazards caused by the substance, its products of combustion or resulting gases

Can form explosive gas-air mixtures
Formation of toxic gases is possible during heating or in case of fire.

5.4 Protective equipment

Wear self-contained breathing apparatus
Wear full protective suit



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6. Accidental release measures

6.1 Personal protection/precautions

Keep away from ignition sources
Wear protective clothing
Do not breath gas, fumes, spray, vapour
Ensure adequate ventilation

6.2 Environmental precautions

Do not allow to enter sewers, surface or ground water.

6.3 Method of collecting/clean up

Allow product to solidify and remove by mechanical means
Remove uncured foam with acetone
Dispose of contaminated waste as per section 13
Ensure adequate ventilation

6.4 Additional information

See section 13 for disposal information

7. Handling and storage

7.1 Handling

Observe very strict hygiene - avoid contact
Do not activate the can if temperature is above 25°C.
Ensure good ventilation/exhaust at the workplace
Open and handle containers with care

7.2 Information about fire/explosion protection

Pressurized container: protect from sunlight and do not expose to temperatures above 50°C
Do not pierce or burn, even after use.
Do not spray onto naked flame or incandescent material
Keep away from ignition sources. Do not smoke
Protect against electrostatic charges.

7.3 Storage

Keep out of direct sunlight
Store in a cool area
Store in a dry area
Keep away from heat sources, ignition sources, acids, bases
Store away from foodstuffs
Store in vertical position in original container.
Protect from frost
Store under lock and key and out of reach of children

Storage temperature	+5 to +30 °C
Quantity limit	N.D. kg
Storage life	365 days
Material for packaging	Original container

8. Exposure controls / Personal protection

Ingredients with limit values that require monitoring at the workplace

9016-87-9 polymethylene polyphenyl polyisocyanate, isomers and homologues

WEL	Short term value	0.07 mg/m ³
	Long term value	0.02 mg/m ³
	Sen; as-NCO	

106-97-8 butane

WEL	Short term value	1810 mg/m ³ , 750ppm
	Long term value	1450 mg/m ³ , 600ppm
	Carc (if more than 0.1% of buta 1,3-diene	

115-10-6	Short term value	958 mg/m ³ , 500ppm
	Long term value	766 mg/m ³ , 400ppm



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Personal protective equipment

General protective and hygiene measures

Keep away from food, drinks and animal feed
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at end of work
Avoid contact with skin and eyes

Respiratory protection

In case of brief exposure or low level pollution use respiratory filter device. In case of intensive or long exposure use self contained breathing apparatus.

Hand protection



Wear protective gloves

Material of gloves

PVC or Rubber gloves of suitable quality as defined by the glove manufacturer

Eye protection



Wear tight sealed goggles

Protective clothing

Protective work clothing

9. Physical and chemical properties

Description	Rapidly curing foam dispensed by gas propellant from an aerosol container
Colour	Light yellow
Odour	Characteristic
Melting point/range	Undetermined
Boiling point/range	Not applicable as aerosol
Flash point	<0°C (propellant)
Danger of explosion	Heating may cause explosion
Explosion Limits	Lower 1.5 Vol% Upper 11.0%Vol
Vapour pressure	>500kPa (in the container) <1*10 ⁻⁵ mmHg w 25°C (MDI)
Density at 20°C	≤ 1.3 (PMDI) g/cm ³
Solubility in Water	Insoluble
Miscibility with water	Reacts with water

10. Stability and reactivity

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications

Materials to be avoided

Reacts strongly with water and other substances containing an active hydrogen atom

Dangerous reactions

No dangerous reactions known

Dangerous decomposition products

No dangerous decomposition products known



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11. Toxicological information

Acute toxicity

LD/LC50 values relevant for classification

13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

Inhalation LC50/4h >0.05 mg/l (rat)

101-68-8 4,4' methylenediphenyl diisocyanate

Oral LD50 >9200 mg/kg (rat)

Inhalation LC50/4h >178 mg/l (rat)

Primary irritant effect:

On the skin irritant to skin and mucous membrane

On the eye irritating effect

Sensitisation sensitisation possible through inhalation

sensitisation possible through skin contact

Additional toxicological information

Harmful

Irritant

12. Ecological information

Information about elimination (Persistence and degradability)

Not biodegradable

Mobility and bioaccumulation potential Does not accumulate in organisms

Ecotoxicological effects

Aquatic toxicity

13674-84-5 tris(-chlorisopropyl)-phosphate

EC50 47mg/kg (alg)

85535-85-9 alkanes, C14-17, chloro

EC50 >1000mg/l/48h (daphnia)

>1000mg/l/72h (alg)

NOEC <1000mg/l (alg)

Additional ecological information

General notes

Do not allow undiluted product or large quantities of it to reach ground water, water courses or sewage systems

13. Disposal considerations

Recommendation

Must not be disposed of with household waste. Do not allow product to reach sewage system.

European Waste Catalogue

07 02 08* other still bottoms and reaction residues

07 02 13 waste plastic

15 01 05 composite packaging

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations



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14. Transport information

Land transport ADR/RID (cross border)

ADR/RID class	2 5F Gases
Danger code (Kemler)	-
UN Number	1950
Packaging group	-
Hazard label	2.1
Remarks	Exemption from ADR provisions by LQ principal (rule 3.4.5) Inner packaging, max 1 litre on capacity; outer packaging - max gross weight 30kg Inner packaging, max 1 litre on capacity; based on common ground and covered in shrink fill - max gross weight 20kg

Maritime transport IMDG

IMDG class	2 5F
UN number	1950
Label	2.1
Packaging group	-
EMS number	F-D,S-U
Marine pollutant	Yes
Proper shipping name	Aerosol

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class	2 5F
UN/ID number	1950
Label	2.1
Proper shipping name	Aerosol

15. Regulatory information

Labelling according to EU Guidelines:

The product has been classified and marked in accordance with EU directives/ Ordinance of Hazardous Materials

Code letter and hazard designation of product



Xn Harmful
F+ Extremely flammable

Hazards-determining components of labelling

polymethylene polyphenyl polyisocyanate, isomers and homologues

Risk phrases

20	Harmful by inhalation
36/37/38	Irritating to eyes, respiratory system and skin
40	Limited evidence of carcinogenic effect
42/43	May cause sensitisation by inhalation and skin contact
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
53	May cause long-term adverse effects in the aquatic environment

Safety phrases

23	Do not breath gas/fumes/vapour/spray
36/37/38	Wear suitable protective clothing, gloves and eye/face protection
45	In case of accident or if you feel unwell seek medical advice immediately (Show the label where possible)
51	Use only in well ventilated area
61	Avoid release to the environment. Refer to special instructions/safety data sheet
63	In case of accident by inhalation; remove casualty to fresh air and keep at rest.



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Special labelling of certain preparations

Contains isocyanides. See information supplied by the manufacturer

May cause harm to breastfed babies

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after 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

Keep away from sources of ignition - No smoking

Do not spray on a naked flame of incandescent material

Keep out of reach of children

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legal valid contractual relationship.

Relevant R-phrases

- | | |
|----------|---|
| 12 | Extremely flammable |
| 20 | Harmful by inhalation |
| 22 | Harmful if swallowed |
| 23/37/38 | Irritating to eyes, respiratory system and skin |
| 40 | Limited evidence of carcinogenic effect |
| 42/43 | May cause sensitisation by inhalation and skin contact |
| 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation |
| 50/53 | Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment |
| 64 | May cause harm to breastfed babies |
| 66 | Repeated exposure may cause skin dryness or cracking |

Recommended restrictions of use

Sealing and mounting of construction elements

Mounting of doors and windows cannot be performed without the use of mechanical connectors. Before use, naturally bring the can up to room temperature. Shake the container well. Screw on the nozzle or screw can onto applicator gun. Work from the bottom of a void towards the top. Control the spray volume by adjusting the pressure on the can nozzle or gun trigger. After release from container the foam increases in volume. Use special cleaner to remove uncured foam. Cured foam can only be removed mechanically. After full cure protect the foam against UV radiation. In lower temperatures the foam expands and cures slower. The information stated above is based on current knowledge and applies to the product in the form in which it is used. Data concerning this product is presented in order to fulfil safety requirements and not to guarantee its specific properties.

In cases where application conditions are not subject to the manufacturers control, the safe product use and complying with regulations is the responsibility of the user.