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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.09.2015 Version number 1 Revision: 14.09.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Grade B1 Gun Applied Expanding Foam
- · Relevant identified uses of the substance or mixture and uses advised against
- · No further relevant information available.
- · Application of the substance / the mixture

Construction chemicals

Assembly foam

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

JCP Construction Products

Unit 14, Teddington Industrial Estate

Teddington,

Middlesex. TW11 9BQ

- · Further information obtainable from: jcpenquiries@owlett-jaton.com www.jcpconstructionproducts.com
- · Emergency telephone number: +44 (0)208 943 1800 8.30am-5.00pm Monday to Friday

SECTION 2: Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
	H319 H317

· Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms







GHS02

)2 GHS07 (

· Signal word Danger

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomers and homologues

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H332 Harmful 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.
 H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information:

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.

Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Do not spray on an open flame or other ignition source.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

EUH204 Contains isocyanates. May produce an allergic reaction.

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	30.0 - 60.0%
CAS: 13674-84-5 Reg.nr.: 01-2119486772-26-xxxx	tris(2-chlorisopropyl)-phosphate Output Description:	< 25.0%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-21194869440-21-xxxx	propane Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-31-xxxx	butane Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-0001	dimethyl ether Flam. Gas 1, H220; Press. Gas C, H280	< 10.0%
CAS: 86675-46-9 Reg.nr.: 01-2119972940-xx	Halogenated polyetherpolyol Output Description:	< 15.0%

[·] Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Remove uncured foam using a piece of cloth and an unagressive solvent, e.g. ethanol. Wash your hands and the 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.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Rinse out mouth and then drink plenty of water.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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Indication of any immediate medical attention and special treatment needed. No further relevant information available.

SECTION 5: Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Carbon dioxide

Fire-extinguishing powder

Foam

Water haze

Use fire extinguishing methods suitable to surrounding conditions.

· Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Wear protective clothing.

Do not breathe gas/fumes/vapour/spray.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Uncured foam adheres easily, hence it should be removed with caution. Remove instantly using a piece of cloth and solvents, e.g. acetone, alcohol. Remove cured foam mechanically.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility:

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions:

Store in vertical position in closed original containers.

Protect from frost.

Store at temperature from +5 °C to +30 °C.

Store under lock and key and out of the reach of children.

Keep container tightly sealed.

Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Control parameters

· Ingredients with limi	t values that require monitoring at the workplace:
CAS: 9016-87-9 dipher	ylmethanediisocyanate, isomers and homologues

WEL | Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen: as -NCO

CAS: 106-97-8 butane

WEL | Short-term value: 1810 mg/m³, 750 ppm

Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

CAS: 115-10-6 dimethyl ether

WEL | Short-term value: 958 mg/m³, 500 ppm

Long-term value: 766 mg/m³, 400 ppm

- Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Polyethylene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eve protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:

Form: Aerosol

Rapidly curing foam dispensed by gaseous propellant from an

aerosol container.

Colour: Grey

· **Odour:** Characteristic

· pH-value: Not determined

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· Flash point: < 0 °C (propelant)

· **Self-igniting:** > +350 °C (propelant)

· Danger of explosion: Product is not explosive. However, formation of explosive air/

vapour mixtures are possible.

· Explosion limits:

Lower: +/- 1.5 Vol %

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Upper:	+/- 11 Vol %	
· Vapour pressure:	>500 kPa (in the container) < 1*10-5 mmHg w 25 °C (MDI)	
Density at 20 °C:	≤1.3 (PMDI) g/cm³	
· Solubility in / Miscibility with		
water:	Insoluble. reacts with water	
Partition coefficient (n-octanol/w	ater): Not determined	
· Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Strongly reacts with water and other substances containing an active hydrogen atom

· Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · Information on toxicological effects
- · Acute toxicity

Harmful if inhaled.

Tiaiiiiui ii	Harrinia in initialea.		
· LD/LC50	· LD/LC50 values relevant for classification:		
CAS: 136	CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate		
Oral	LD50	> 2000 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rat)	
Inhalative	LD50	> 0.5 mg/l (rat)	
CAS: 901	CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues		
Oral	LD50	>10000 mg/kg (rat) (OECD401)	
Dermal	LD50	>9400 mg/kg (rabbit) (OECD402)	
	-		

- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

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· Carcinogenicity

Suspected of causing cancer.

- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · Toxicity
- · Aquatic toxicity:

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

EC50 47 mg/l (96h) (algae)

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

EC50 1640 mg/l (algae)

>1000 mg/l (daphnia) (OECD202)

>100 mg/l (Sedimentation) (OECD209)

LC50 |>1000 mg/l (fish) (OECD)

- · Persistence and degradability Not biodegradable
- · Behaviour in environmental systems:
- · Bioaccumulative potential Does not accumulate in organisms
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. 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

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- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	1950
UN proper shipping name	
IMDG, IATA	AEROSOLS
Transport hazard class(es)	
ADR, IMDG, IATA	
Class	2 Gases.
Label	2.1
Packing group	
ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
EMS Number:	F-D,S-U
Transport in bulk according to Anne	x II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	LQ2
Transport category	2
Remarks:	Exemption from ADR provisions by LQ principal (rule 3.4 Inner packaging, max. 1 liter in capacity; outer packagi – max. gross weight of 30kg
	 Inner packaging, max. 1 liter in capacity, based of common ground and covered with shrink film – max. groweight of 20kg.
UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

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

No further relevant information available.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 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 legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

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.

H373 May cause damage to organs through prolonged or repeated exposure.

Recommended restriction of use

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 fulfill safety requirements and not to guarantee its specific properties

In cases when application conditions are not subject to manufacturer's control, the responsibility for safe product use and obeying law regulations in particular, lies on the user's side.

Information in the appropriate technical data sheet of product.

· Department issuing MSDS: Product safety department.

· Contact: Magdalena Dudka

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases, Hazard Category 1

Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas C: Gases under pressure: Compressed gas

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

* * Data compared to the previous version altered.

- 1) So far unclassified substance CAS: 13674-84-5 added in pt 3; MDI reclassification
- 2) Change in classification of compound in pt 2
- 3) Change in storage temperature in pt 7
- 4) Pts 11 & 12 enhanced by data for new substances
- 5) information about collection of empty containers in 13 pt have been removed.
- 6) Change in pt 15 resulting from compound reclassification
- 7) CLP classification

Update date: 01.06.2015