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

Printing date 21.08.2015

Version number 33

Revision: 21.08.2015

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

- · Product identifier
- · Trade name: Grade B2 Gun Applied Fire Rated 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

Flam. 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	

\mathbf{V}		
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
Lact.	H362	May cause harm to breast-fed children.
Aquatic Chronic 4	H413	May cause long lasting harmful effects to aquatic life.
· Additional info	rmation:	
Classification of	tha nranar	ation with attributed H413 phrase, taking into account the content of C14-C17

Classification of the preparation with attributed H413 phrase, taking into account the content od C14-C17 chlorinated alkanes, was made on the basis of acute toxicology tests; FEICA Position Paper 17.03.2014. (Contd. on page 2)

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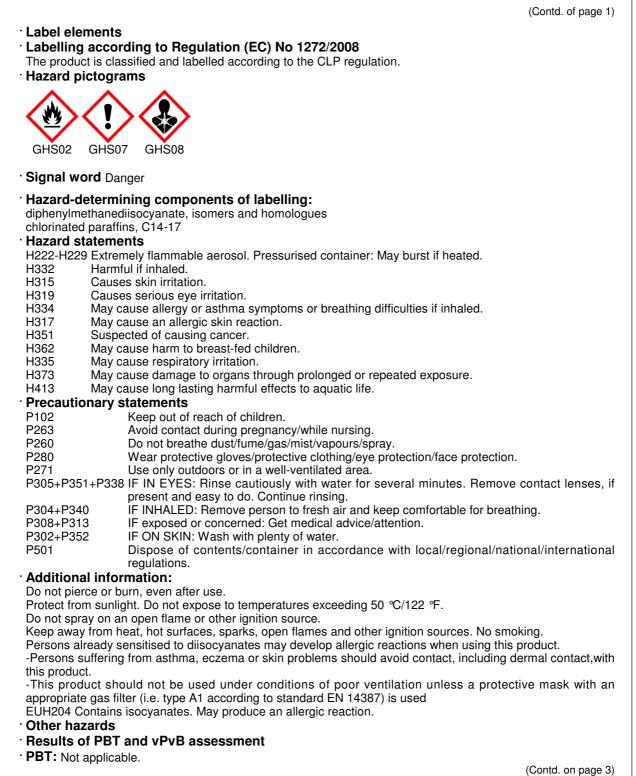
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· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- [•] Chemical characterisation: Mixtures
- · Description: Mixture: consisting of the following 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	< 25.0%
CAS: 85535-85-9 EINECS: 287-477-0 Reg.nr.: 01-2119519269-33-xxxx	chlorinated paraffins, C14-17 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	< 20.0%
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 Tlam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Tlam. 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%

SECTION 4: First aid measures

[.] Description of first aid measures

[•] After inhalation:

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

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. Then consult a doctor.

[•] After swallowing:

Do not induce vomiting; call for medical help immediately.

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 spray

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.

· Additional information Cool endangered receptacles with water spray.

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

· Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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.

Do not pierce or burn even after use. Use only as directed on the label.

Do not mix with any other chemical products

Information about fire - and explosion protection:

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.

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

Keep ignition sources away - Do not smoke.

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(Contd. of page 4) Protect against electrostatic charges. 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. This product is subject to regulations governing the storage of highly flammable aerosol products Storage rooms should be equipped with heat and smoke detectors. Electrical equipment should be explosion-proof. 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 reducing agents. Store away from oxidising agents. Store away from foodstuffs. Store away from plastic, rubber, aluminum, light-metals Further information about storage conditions: Store receptacle in a well ventilated area. Store in vertical position in closed original containers. Store at temperature from $+5 \text{ }^{\circ}\text{C}$ to $+30 \text{ }^{\circ}\text{C}$. Protect from frost. Store under lock and key and out of the reach of children. Protect from heat and direct sunlight. Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- Control parameters

[.] Ingre	edients with limit values that require monitoring at the workplace:
CAS:	9016-87-9 diphenylmethanediisocyanate, isomers and homologues
WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
CAS:	106-97-8 butane
WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 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/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
· Pers · Gene Keep Imme Wash Avoid	posure controls onal protective equipment: eral protective and hygienic measures: away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing in hands before breaks and at the end of work. I contact with the eyes and skin. ot inhale gases / fumes / aerosols. (Contd. on page 6)

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[•] 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.

Protection of hands:



Protective gloves

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.

Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical	and chemical properties	
	ical and chemical properties	
· General Information		
· Appearance:		
Form:	Rapidly curing foam dispensed by gaseous propellant from an aerosol	
	container.	
Colour:	Light yellow	
· Odour:	Characteristic	
Change in condition		
Melting point/Melting rar		
Boiling point/Boiling ran	ge: Not applicable, as aerosol.	
[·] Flash point:	< 0 °C	
· Self-igniting:	> +350 ℃ (propelant)	
[.] Danger of explosion:	Heating may cause an explosion.	
· Explosion limits:		
Lower:	1.5 Vol %	
Upper:	11.0 Vol %	
· Vapour pressure:	>500 kPa (in the container)	
	< 1*10-5 mmHg w 25 ℃ (MDI)	
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· Density at 20 ℃:

≤ 1.3 (PMDI) g/cm³

 Solubility in / Miscibility with water:

Insoluble.

[.] Other information

reacts with water 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.

· LD/LC50 values relevant for classification:

Oral	LD50	>2000 mg/kg (rat)
Democrat		0000

Dermai	LDSU	>2000 mg/kg (rat)
1 1 1 1		

Inhalative LC50/4 h >0.5 mg/l (rat)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 9200 mg/kg (rat) Inhalative LC50/4 h 178 mg/l (rat)

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.
- Carcinogenicity
- Suspected of causing cancer.
- **Reproductive toxicity** May cause harm to breast-fed children.

· STOT-single exposure

May cause respiratory irritation.

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· 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.

· Toxicity

· Aquatic toxicity:

CAS: 85535-85-9 chlorinated paraffins, C14-17

EC50 >1000mg/l/48h (daphnia) (20%MCCP's)

- >1000mg/l/72h (algae) (20%MCCP's)
- NOEC >1000 mg/l (algae) (20%MCCP's)
- CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate
- EC50 47 mg/kg (algae)
- · 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

Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- · UN-Number
- · ADR, IMDG, IATA

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 [·] UN proper shipping name [·] ADR [·] IMDG, IATA 	AREOZOLE AEROSOLS
· Transport hazard class(es)	
ADR Class Label	2 5F Gases. 2.1
[·] IMDG, IATA [·] Class [·] Label	2 5F Gases. 2.1
· Packing group · ADR, IMDG	Void
 Environmental hazards: Marine pollutant: 	No
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Gases. - F-D,S-U
 Transport in bulk according to Anney Marpol and the IBC Code 	c II of Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Transport category Remarks: 	LQ2 2 Exemption from ADR provisions by LQ principal (rule 3.4.5) - Inner packaging, max. 1 liter in capacity; outer packaging - max. gross weight of 30kg - Inner packaging, max. 1 liter in capacity, based or common ground and covered with shrink film – max. gross weight of 20kg.
· UN "Model Regulation":	UN1950; AREOSOLS; 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.

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.

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