



SAFETY DATA SHEET

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

Fuel Cell

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

1.1 Identification of the substance/preparation

Fuel Cell

1.2 Use of the substance/preparation

Propellant for gas nailing tools

1.3 Supplier

JCP Construction Products
Unit 07 Princess Court, Horace Rd
Kingston Surrey KT1 2SL
Tel +44 208 546 6545
Fax +44 208 546 6019

Telephone number for Emergencies

2 Hazards identification

3.1 To people

See point 15

Inhalation of fumes may have narcotic effect

3.2 To the environment

See point 12

3 Composition / information on ingredients

Hazardous Ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
Butane	106-97-8	60-80		
	203-448-7		F+	R12
Propane	74-98-6	20-40		
	200-827-9		F+	R12

4 First aid measures

4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms

Keep Data Sheet available

4.2 Eye contact

Wash thoroughly for several minutes using ample water. Seek medical help if necessary

4.3 Skin contact

Wash thoroughly using ample water-remove contaminated clothing immediately. If skin irritation occurs (redness, etc) consult doctor

4.4 Ingestion

Call doctor immediately-have Data Sheet available

5 Fire-fighting measures

5.1 Suitable extinguisher media

Dry powder extinguisher

CO2

5.2 Unsuitable fire extinguisher for reasons of safety

Water

5.3 Special dangers caused by the substance or preparation itself,

Results of fire / burning, or ensuring gases

In case of fire the following can develop:

Danger of explosion by prolonged heating

Gases hazardous to health

5.4 Special protective equipment for fire fighting

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

6 Accidental release measures

6.1 Personal precautions

Remove possible causes of ignition-do not smoke

Ensure sufficient supply of air

Avoid inhaling

6.2 Environmental measures

If leakage occurs, dam up

6.3 Procedure for cleaning up

If spray or gas escapes, ensure ample fresh air is available

7 Handling and storage

7.1 Handling

Observe strict hygiene-avoid contact

Observe directions on label

Keep away from sources of ignition-do not smoke

Ensure good ventilation

7.2 Storage

Store out of direct sunlight in a cool and dry area.

Not to be stored in gangways or stair wells

Do not store with flammable or self-igniting materials

Observe regulations for ; keeping separated

Only store products unopened, in original packing

Observe special regulations for aerosols

Keep protected from direct sunlight and temperatures over 50°C

8 Exposure controls /personal protection

Chemical name /content %/ MAK-value

Butane; 60-80; MAK 1000ppm (2350mg/m3)

Propane; 20-40; MAK 1000ppm (1800mg/m3)

8.1 Respiratory protection Only if MAK-value is exceeded (AX)

8.2 Hand protection Chemical resistant protective gloves

8.3 Eye protection Protective goggles

8.4 Body protection Protective working garments

9 Physical and chemical properties

Appearance / Odour

Physical state Aerosol

Odour n.v. .

Colour n.v..

PH-value undiluted n.v..

Flammability (solid /gas) Yes

Danger of explosion (vol %)

Minimum limit of explosion 1.9 (main substrates)

Maximum limit of explosion 9.5 (main substrates)

Further specification

Fuel Cell Vapour pressure 7.5 bar /20 ; 12 bar /50 Page 2 of 4

10 Stability and reactivity**10.1 Conditions to avoid**

See point 7
 Pressure increase will lead to danger of bursting
 Heating, open flame, ignition sources

10.2 Materials to avoid

See point 7
 Avoid contact with oxidizing agents
 Avoid contact with other chemicals

10.3 Hazardous decomposition products

See point 5.3

11 Toxicological information**11.1 Acute toxicity**

Ingestion, LD50 rat oral (mg/kg)	n.v.
Ingestion, LD50 rat inhal (mg/l/4h)	n.v.
Skin contact, LD50 rat dermal (mg/kg)	n.v.
Eye contact	n.v.

11.2 Chronic effects

Sensitization	n.g.
Carcinogenicity	n.g.
Mutagenicity	n.g.
Reproductive toxicity	n.g.
Narcosis	n.g.

11.3 Further information

n.v.

12 Ecological information**12.1 Acute toxicity**

Water hazard class	0
Self classification acc. to VCI	VwVwS (German regulation)
Degradability	n.v.
Aquatic toxicity	n.v.
Ecological toxicity	n.v.

13 Disposal considerations**13.1 For the material / preparation /residue**

EEC disposal code no 20 01 22
 Recommendation:
 Pay attention to local and national official regulations
 E.g. dispose at suitable refuse site

13.2 For contaminated packing material

See point 13.1
 Pay attention to local and national official regulations

14 Transport information**General statements**

UN-Number	1950
Road / Rail-transport (GGVS / ADR /GGVE/ RID)	
GGVS / ADR	2/10b/2(class / number)
GGVE / RID	2/10b/2(class / number)
1950 aerosole	

Transport by sea

GGVE See / IMDG-code 9/9022/(class/code/packing group)

EmS-Number 2-13

MFAG-Number (620)

Marine Pollutant n.a.

Transport by air

ICAO /IATA-DGR 2.1 /- /- (class /secondary danger /packing group)

Additional information

Minimum amount regulations have not been taken into account

15 Regulatory information

Classification according to Dangerous Product Regulations incl.EEC Guidelines 967/548 /EEC and 88/379/EEC)

Symbol: F+**R-phrases**

R12 Extremely flammable

R18 in use, may form flammable /explosive vapour-air mixture

S-phrases

S9 Keep container in a well ventilated place

S23 Do not breathe gas / fumes /vapour /spray (appropriate wording to be specified by the manufacturer)

S51 Use only in well ventilated areas

Additions

Pressurized container: protect from sunlight from sunlight and no not expose to temperatures exceeding 50°C

Do not pierce or burn, even after use

Do not spray on a naked flame or any incandescent material

Keep away from sources of ignition-no smoking

Keep out of the reach of children

16 Other information

These details refer to the product as it is delivered

17 Legend**n.a** Not applicable**n.v** Not available**n.g** Not checked**MAK** Maximum concentration per work place liquids**WGK3** Water Hazard Class**WGK2** Very hazardous to water**WGK1** Slightly hazardous to water**WGK0** Generally not hazardous to water

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