

Safety Data Sheet

According to EEC Regulation 91 / 155 / EEC

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

1.1 Product Name

JCP Fuel Cell

1.2 Supplier

JCP Construction Products

Unit 07 Princess Court

Horace Rd

Kingston

Surrey KT1 2SL

1.3 Emergency Telephone Number +44 (0)208 546 6545

Technical Number +44 (0)208 546 6545

02 Composition / information on ingredients

2.1 Chemical name / content % /NAK-value / BAT-value

Butane; 60-80 ;MAK 1000ppm (2350 mg /m3); CAS 106-97-8

Propane; 20-40; MAK 1000ppm(1800mg/m3);CAS 74-98-6

03 Hazards identification

3.1 To people

See point 15

Inhalation of fumes may have narcotic effect

3.2 To the environment

See point 12

04 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

05 Fire-fighting measures

5.1 Suitable extinguisher media

Dry 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

06 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

07 Handling and storage

7.1 Handling

7.1.1 Tips for safe handling

Observe directions on label

Keep away from sources of ignition-do not smoke

Ensure good ventilation

7.2 Storage

7.2.1 Requirements for storage rooms and containers

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

7.2.2 Prohibitions for joint storage

Observe TRGS 514

Observe TRGS 515

Observe TRG 300

7.2.3 Special storage conditions

See point 10.2

Keep protected from direct sunlight and temperatures over 50

08 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

09 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

Vapour pressure	7.5 bar /20 ; 12 bar /50
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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

- 11.1.1** Ingestion, LD50 rat oral (mg/kg) n.v.
- 11.1.2** Ingestion, LD50 rat inhal (mg/l/4h) n.v.
- 11.1.3** Skin contact, LD50 rat dermal(mg/kg) n.v.
- 11.1.4** Eye contact n.v.

11.2 Chronic effects

- 11.2.1** Sensitization n.g.
- 11.2.2** Carcinogenicity n.g.
- 11.2.3** Mutagenicity n.g.
- 11.2.4** Reproductive toxicity n.g.
- 11.2.5** Narcosis n.g.

11.3 Further information

n.v.

12 Ecological information

12.1 Acute toxicity

- 12.2** Water hazard class 0
- 12.3** Self classification acc. to VCI VwVwS (German regulation)
- 12.4** Degradability n.v.
- 12.5** Aquatic toxicity n.v.
- 12.6** 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 13.1.3 /13.1.4
- Pay attention to local and national official regulations

14 Transport information

General statements

UN-Number	1950
Road / Rall-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)
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EmS-Number	2-13
MFAG-Number	(620)
Marine Pollutant	n.a.

Transport by air

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

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

The statements made here should describe the product with
Regard to the necessary safety precautions-they are not meant to
guarantee definite characteristics-but they are based on our
present up-to-date knowledge. No responsibility