

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

- 1.1 Product Name**
Paslode Fuel Cell
- 1.2 Supplier**
ITW Construction Products
Fleming Way
Crawley
West Sussex RH10 9DP
England
- 1.3 Emergency Telephone Number**
44 (0) 1293 523372

2.0 Composition / information on ingredients

- 2.1 Chemical Name / Content % / MAK-value / TRK-value / BAT-value**
n-Butane; 45 - 65; MAK 1000ppm (2350 mg/m³); CAS 106-97-8
Propene; 30 - 50; MAK 10,000ppm; CAS 115-07-1
Propane; 5 - 10; MAK 1000ppm (1800 mg/m³); CAS 74-98-6

3.0 Hazards identification

- 3.1 To people**
See point 15. Inhalation of fumes may have narcotic effect.
- 3.2 To the environment**
See point 12.

4.0 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.

5.0 Fire fighting measures

- 5.1 Suitable extinguishing 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.

6.0 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 precautions**
If leakage occurs, dam up.
- 6.3 Procedure for cleaning up**
If spray or gas escapes, ensure ample fresh air is available.

7.0 Handling and storage

- 7.1 Handling**
- Tips for safe handling**
Observe directions on label.
Keep away from sources of ignition - do not smoke.
Ensure good ventilation.
- 7.2 Storage**
- 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.
- Prohibitions for joint storage**
Observe TRGS 514
Observe TRGS 515
Observe TRG 300
- Special storage conditions**
See point 10.2
Keep protected from direct sunlight and temperatures over 50°C.

8.0 Exposure controls / personal protection

- 8.1 Chemical Name / Content % / MAK-value / TRK-value / BAT-value**
n-Butane; 45 - 50; MAK 1000ppm (2350 mg/m³)
Propene; 30 - 50; MAK 10,000ppm
Propane; 5 - 10; MAK 1000ppm (1800 mg/m³)
- 8.2 Respiratory protection**
Only if MAK-value is exceeded (AX).
- 8.3 Hand protection**
Chemical resistant protective gloves.
- 8.4 Eye protection**
Protective goggles.
- 8.5 Body protection**
Protective working garments.

9.0 Physical and chemical properties

- 9.1 Appearance / odour:**
- | | |
|---------------------------------|---------|
| Physical state | Aerosol |
| Odour | n.v. |
| Colour | n.v. |
| pH-value undiluted | n.v. |
| Flammability (solid/gas) | Yes |
- 9.2 Danger of explosion (vol %):**
- | | |
|-----------------------------------|------------------------------|
| Minimum limit of explosion | 1.5 - 2.0 (main substrates) |
| Maximum limit of explosion | 8.5 - 11.7 (main substrates) |
- 9.3 Further specification:**
- | | |
|-----------------------|------------------------------|
| Vapor pressure | 7 bar / 20°C; 116 bar / 50°C |
|-----------------------|------------------------------|

10.0 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

11.0 Toxicological information

11.1 Acute toxicity	
Ingestion, LD50 rat oral (mg/kg)	n.v.
Inhalation, LC50 rat inhal (mg/l/4h)	n.v.
Skin contact, LD50 rat dermal (mg/kg)	n.v.
Eye contact	Yes
11.2 Chronic effects	
Sensitization	n.g.
Carcinogenicity	n.g.
Mutagenicity	n.g.
Reproductive toxicity	n.g.
Narcosis	n.g.
11.3 Further specification	n.v.

12.0 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.


13.0 Disposal considerations

13.1 For the material / preparation / residue	
EEC disposal code no 16 05 04	
Recommendation:	
Pay attention to local and national official regulations.	
E.g. dispose at suitable refuse site.	
13.2 For contaminated packaging materials	
See point 13.1.	
Pay attention to local and national official regulations.	

14.0 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 aerosol	
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.

15.0 Regulatory information

Classification according to Dangerous Product Regulations including EEC Guidelines (67/548/EEC and 88/379/EEC).	
Symbol: F+	
R - phrase(s)	
R12	Extremely flammable.
R18	In use, may form flammable explosive vapour-air mixture.
S - phrase(s)	
S9	Keep containers in a well ventilated place.
S23	Do not breathe gas / fumes / vapour / spray.
S51	Use only in well ventilated areas.
Additions	
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.	
Do not pierce or burn, ever 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. Do not pierce or burn, ever after use. Do not spray on a naked flame or any incandescent material. Keep away from ignition sources - no smoking. Keep out of the reach of children.

16.0 Other information

These details refer to the product as it is delivered.

Legend

- n.a. Not applicable
- n.v. Not available
- n.g. Not checked
- VbF Regulations for flammable liquids
- MAK Maximum concentration per work place in ml/m3 - ppm
- BAT Biological tolerance for work places
- TRbF Technical regulations for flammable liquids
- WGK Water Hazard Class
- WGK3 Very hazardous to water
- WGK2 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.

This safety data sheet has been produced according to EEC Regulations 91/155/EEC

Further advice and assistance can be obtained from the ITW Construction Products Technical Helpline:

UK Freephone: 0800 731 4924
ROI Freephone: 1 800 882 388

