



SAFETY DATA SHEET BUTANE CARTRIDGE

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name BUTANE CARTRIDGE
Product No. D2, D4, P2, S4, S6
EC No. 270-990-9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Fuel for portable gas appliances.

1.3. Details of the supplier of the safety data sheet

Supplier: JFA Ltd
Riverside Mill Lane
Taplow
Berks SL6 0AA
Tel: 01628 637111
Fax: 01628 773030
chris@jfaexport.com

1.4. Emergency telephone number

01628 637111 (Office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Gas 1 - H220
Human health Not classified.
Environment Not classified.

Classification (67/548/EEC)

F+;R12.

Human Health

See section 11 for additional information on health hazards.

Physical And Chemical Hazards

Contains gas under pressure; may explode if heated. The product is extremely flammable and may ignite in the air at normal temperature and pressure. Explosive vapour/air mixtures may be spontaneously formed.

2.2. Label elements

EC No. 270-990-9

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H220 Extremely flammable gas.

Precautionary Statements

P102 Keep out of reach of children.

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Supplementary Precautionary Statements

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

2.3. Other hazards

BUTANE CARTRIDGE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

HYDROCARBONS, C3-4-RICH, PETROLEUM DISTILLATE; PETROLEUM GAS (< 0.1% 1,3-BUTADIENE)		100%
CAS-No.: 68512-91-4	EC No.: 270-990-9	
Classification (EC 1272/2008) Flam. Gas 1 - H220	Classification (67/548/EEC) F+;R12.	

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

EC No. 270-990-9

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation.

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Not relevant.

Skin Contact

Remove affected person from source of contamination. Promptly stop exposure and get medical attention if frostbite has occurred. Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation.

May cause nausea, headache, dizziness and intoxication. Asphyxiating

Ingestion

Not relevant.

Skin Contact

Contact with liquid form may cause frostbite.

Eye Contact

Contact with liquid form may cause frostbite. Corneal damage.

4.3. Indication of any immediate medical attention and special treatment needed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

Stop flow of material to fire. Use: Water spray, dry powder or carbon dioxide.

Unsuitable Extinguishing Media

Foam. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products

During fire, toxic gases (CO, CO₂) are formed.

Unusual Fire & Explosion Hazards

Extremely flammable. May explode in a fire.

Specific Hazards

Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Ventilate closed spaces before entering them. Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to flames with water until well after the fire is out. Fight advanced or massive fires from safe distance or protected location.

BUTANE CARTRIDGE

Protective Measures In Fire

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Not applicable.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Provide good ventilation. Only use with compatible / applicable appliances. Use only in the upright position. Do not store in basements, cellars, etc., low-level points where vapours can accumulate or in vehicles (heating by sun).

7.2. Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings. Store at temperature below 50°C.

Storage Class

Flammable compressed gas storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

In case of inadequate ventilation use suitable respirator. CCR, Chemical cartridge respirator.

Other Protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent skin contamination or freezing.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Promptly remove non-impervious clothing that becomes wet or contaminated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Gas
Colour	Colourless
Odour	Pepper.

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None noted.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

BUTANE CARTRIDGE

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

Toxic gases/vapours/fumes of: Carbon monoxide (CO).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Conc. - LC 50 658 mg/l/4h (inh-rat)

General Information

Use only as directed. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Health Warnings Gas or vapour displaces oxygen available for breathing (asphyxiant). Narcotic effect. Contact with liquid form may cause frostbite.

Route of entry

Inhalation. Skin and/or eye contact.

Target Organs

Central nervous system Eyes Respiratory system, lungs

Medical Symptoms

May cause suffocation. Dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute Fish Toxicity

Not considered toxic to fish.

LC 50, 96 Hrs, Fish mg/l > 1000

12.2. Persistence and degradability

Degradability:

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative Potential:

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Make sure containers are empty before discarding (explosion risk). Do not puncture or incinerate even when empty. This material and its container must be disposed of in a safe way. Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

BUTANE CARTRIDGE

SECTION 14: TRANSPORT INFORMATION

General The product is packaged as Limited Quantity Packaging.

Air Transport Notes As supplied not packaged suitably for air.

14.1. UN number

UN No. (ADR/RID/ADN) 2037

UN No. (IMDG) 2037

14.2 UN Proper shipping name

Proper Shipping Name GAS CARTRIDGE

14.3 Transport hazard class(es)

ADR/RID/ADN Class Class 2.1: Flammable gases.

ADR Label No. 2.1

IMDG Class 2.1

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS F-D, S-U

Emergency Action Code Not applicable.

Tunnel Restriction Code Not applicable, packaged as Limited Quantity.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Nomenclature of ingredients amended. Re-issued in GHS / CPL format.

Risk Phrases In Full

R12 Extremely flammable.

Hazard Statements In Full

H220 Extremely flammable gas.