



## 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

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## 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, CO<sub>2</sub>) 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 (CO<sub>2</sub>).

### 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.

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## 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

<b>Appearance</b>	Gas
<b>Colour</b>	Colourless
<b>Odour</b>	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.

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## 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.