

SAFETY DATA SHEET

BUTANE

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PREPARATION NAME BUTANE
 PRODUCT CODE NO. A4, D2, D4, P2, S2
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2 HAZARDS IDENTIFICATION

Extremely flammable.

CLASSIFICATION F+;R12.

PHYSICAL AND CHEMICAL HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable and may ignite in the air at normal temperature and pressure. Explosive vapour/air mixtures may be spontaneously formed.

HUMAN HEALTH

See section 11 for additional information on health hazards.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
BUTANE	203-448-7	106-97-8	45-70%	F+;R12
ISOBUTANE	200-857-2	75-28-5	10-30%	F+;R12
PROPANE	200-827-9	74-98-6	1-30%	F+;R12

The Full Text for all R-Phrases are Displayed in Section 16

4 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.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Stop flow of material to fire. Use fire extinguishing media to fight fire in any packaging and appropriate for surrounding materials.

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.

UNUSUAL FIRE & EXPLOSION HAZARDS

Extremely flammable. May explode in a fire.

BUTANE

SPECIFIC HAZARDS

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

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

SPILL CLEANUP METHODS

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

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Provide good ventilation.

STORAGE PRECAUTIONS

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

STORAGE CLASS

Aerosol storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
BUTANE	WEL	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Gas
COLOUR	Colourless
ODOUR	Pepper.

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

BUTANE

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.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL 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.

14 TRANSPORT INFORMATION

GENERAL	For the Aerosol Product refer to UN1950. For the Gas Cartridge refer to UN2037.		
ShippingName	AEROSOLS or GAS CARTRIDGE		
AIR TRANSPORT NOTES	As supplied not packaged suitably for air.		
UN NUMBER	1950 or 2037	UKRoadPackGroup	n/a
ADR Class	2		Class 2: Gases
RID CLASS NO.	2	RID PACK GROUP	n/a
UN No Sea	1950 or 2037	Sea Class	2.1
Sea Packing Group	n/a	EMS No	FE, S-U
Marine Pollutant	No.		

15 REGULATORY INFORMATION

SYMBOLS



Extremely Flammable

RISK PHRASES

R12 Extremely flammable.

SAFETY PHRASES

- S2 Keep out of the reach of children
- S3/9 Keep in a cool, well ventilated place.
- S51 Use only in well-ventilated areas.
- S16 Keep away from sources of ignition - No smoking.
- S35 This material and its container must be disposed of in a safe way.
- A1 Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
- A2 Do not spray on a naked flame or any incandescent material.

BUTANE

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION COMMENTS

Document name change. Previously Liquefied Petroleum Gas. Data in Sections 2 and 3 swapped. Sections amended: 1, 2, 3, 5, 6, 11, 14, 16. Re-issued in accordance with Regulation (EC) No. 1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

REVISION DATE 07-2008

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RISK PHRASES IN FULL

R12 Extremely flammable.