SAFETY DATA SHEET

Issue date: 03/01/2008
Revision: 1

1 Identification of the substance or preparation and of the company/undertaking

Product Name: LUCIENNE BUTANE
Use of the substance/preparation: Compressed gas
Name of Supplier: Keen (Private Label) Limited
Address of Supplier: 1 Northbrook Street, Newbury
Berkshire RG24 1DJ, UK
Telephone: +44 1635 34600
Fax: +44 1635 33360
Email: info@keen-newport.com
Emergency Telephone: +44 7901 758915

2 Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>R Phrases*</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blend of hydrocarbons consisting primarily of propane, iso-butane and n-butane</td>
<td>12</td>
<td>F+</td>
</tr>
</tbody>
</table>

*See Section 16

3 Hazards identification

- Odour: Odourless
- Appearance: Liquefied pressure gas
- Contact with eyes: See Section 11
3 Hazards identification (....)

- Contact with skin: Possible frost-bite of affected areas
- Inhalation: May cause dizziness, confusion, headache or stupor. In cases of severe exposure, anaesthesia may develop
- Ingestion: Not regarded as a potential route of exposure

![Extremely Flammable]

4 First aid measures

Contact with skin
- In case of contact with liquid, thaw frosted parts with water. Do not attempt to remove clothing which has stuck to the skin
- Burns must be treated by a physician

Contact with eyes
- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Obtain immediate medical attention

Ingestion
- Not regarded as a potential route of exposure

Inhalation
- Remove patient to fresh air
- Apply artificial respiration only if patient is not breathing
- When in doubt or symptoms persist, seek medical attention

General
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

Notes to Physicians
- Do not give andrenalin or equivalent medicines

5 Fire-fighting measures

- Auto-ignition point 365 deg C at 760 mm Hg
- Extremely Flammable (R12), Lower flammability limit 1.7%(in air), Upper flammability limit 9.5%(in air)
- Decomposition products may include carbon oxides
- Do not extinguish a leaking gas flame unless absolutely necessary. Explosive re-ignition may occur
- In the event of an adjacent fire, cool containers with water spray
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
- Inform Fire Brigade of potential danger of exploding and rocketing cylinders
6 Accidental release measures

Personal Precautions
- Shut off all ignition sources
- Shut off source of leak if safe to do so
- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

Environmental Precautions
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

Clean Up Actions
- Shut off source of leak if safe to do so
- Allow product to evaporate
- Ventilate area

7 Handling and storage

Handling
- Use only in well ventilated areas (S51)
- Do not spray on naked flame or any incandescent material

Storage
- Keep in a cool, dry, well ventilated place
- Do not store above 45 °C

8 Exposure controls and personal protection

Exposure Limits
- TLV (TWA) 1430 mg/m3 (Butane)

Exposure controls
- No special precautions are required for this product

Occupational exposure controls
- Wear flameproof clothing

9 Physical and chemical properties

- Odour: Odourless
- Appearance: Liquefied pressure gas
- pH - not applicable
- Insoluble in water
- Density - not applicable
9 Physical and chemical properties (....)

- Extremely Flammable (R12), Lower flammability limit 1.7% (in air), Upper flammability limit 9.5% (in air)
- Auto-ignition point 365 deg C at 760 mm Hg
- Upper explosive limit 8.5% (in air)
- Lower explosive limit 1.3% (in air)

10 Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating, Keep away from naked flames, incandescent or hot surfaces

11 Toxicological information

**Toxicological information**
- Asphyxiant

**Inhalation**
- In cases of severe exposure, shortness of breath may develop
- Asphyxiant

**Contact with skin**
- May cause frost-bite

**Contact with eyes**
- May cause frost-bite

**Ingestion**
- Not regarded as a potential route of exposure

**Carcinogenicity**
- No evidence of carcinogenic effects

12 Ecological information

**Ecotoxicity**
- On available data, substance is not harmful to aquatic life

**Mobility**
- This substance is volatile

**Bioaccumulation Potential**
- Bioaccumulation is insignificant

13 Disposal considerations

**Classification**
- This material and/or its container must be disposed of as hazardous waste

**Disposal considerations**
- Disposal should be in accordance with local, state or national legislation
14 Transport information

![Flammable gas]

### UN
- Proper Shipping Name: RECEPTACLES, SMALL, CONTAINING GAS
- UN No.: 2037
- Hazard Class: 2.1
- Packing Group: N/A

### Road/Rail (ADR/RID)
- Proper Shipping Name: RECEPTACLES, SMALL, CONTAINING GAS
- ADR UN No.: 2037
- ADR Hazard Class: 2.1
- Tremcard: 20G5F

### DOT / CFR (US Department of Transportation)
- DOT Proper Shipping Name: RECEPTACLES, SMALL, CONTAINING GAS
- Hazardous Material: BUTANE
- Hazard Class: 2.1
- Identification Number: UN 2037
- Product RQ (lbs): N/A
- DOT subrisk: N/A
- DOT Labels: 2
- Flashpoint: N/A

15 Regulatory information

![Extremely Flammable]

**Risk Phrases**
- Extremely Flammable (R12)

**Safety Phrases**
- Keep container in a well ventilated place (S9)
- Keep away from sources of ignition - No Smoking (S16)
- Take precautionary measures against static discharges (S33)
16 Other information

Text of R and S phrase codes used in this safety data sheet:- R12: Extremely Flammable.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents.
The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.
The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.