

SAFETY DATA SHEET

RONSON BUTANE REFILL

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| SDS Reference No. | : 02/115 |
| Issue Date | : March 2002 |
| Revision No. | : 0 |

I. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

RONSON BUTANE REFILLS (90ml to 400ml)

- 1.2 Company Identification: Ronson International Ltd.
Station Works
Long Buckby
Northampton NN6 7PF
- 1.3 Emergency Telephone: 01327 841 500 (office hours only)

II. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Chemical composition : blend of hydrocarbons consisting primarily of propane, iso-butane and n-butane

| Component | CAS No | % Composition |
|------------|-------------|---------------|
| Propane | 000074-98-6 | 22 |
| n-butane | 00106-97-8 | 54 |
| iso-butane | 000075-28-5 | 24 |

- 2.2 Risk phrases : Extremely flammable gas
- 2.3 Classification/symbol : Extremely flammable gas/F+

III. HAZARDS IDENTIFICATION

Extremely flammable liquefied gas.

Eyes: contact with liquid or gas under pressure can cause frostbite (cold burns)

Skin: contact with liquid can cause frostbite (cold burns)

Inhalation: may cause irritation to nose and throat, headache, nausea, vomiting, dizziness, euphoria, drowsiness. In poorly ventilated or confined areas, unconsciousness and asphyxiation may result.

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IV. FIRST AID MEASURES

- 4.1 Eye contact : Flush immediately with plenty of water for at least 15 minutes.
Hold eyelids apart while flushing to rinse entire surfaces of eyes and lids with water. Get immediate medical attention.
- 4.2 Skin contact : In case of cold burns, immediately place affected area in tepid to warm water, and keep immersed until circulation returns.
- 4.3 Inhalation : Remove patient immediately to uncontaminated area. Keep warm and at rest. If breathing has stopped or shows signs of failing, commence artificial respiration. Get immediate medical attention.
- 4.4 Ingestion : No emergency care anticipated, since product is a gas under normal conditions.
- 4.5 Immediate medical advice : Severe inhalation/over exposure may sensitize the heart to catecholamine-induced arrhythmias. Do **NOT** administer catecholamines to an over-exposed person.

V. FIRE FIGHTING MEASURES

- 5.1 Special fire/explosion hazard : can form explosives mixtures with air. Containers exposed to fire can explode and catch fire.
- 5.2 Products of combustion : oxides of carbon
- 5.3 Fire fighting procedures/
extinguishing media : dry powder only.

VI. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal protection : Avoid contact with liquid and vapour.
- 6.2 Environmental precautions : extinguish all naked flames and sources of ignition; disperse vapour.
- 6.3 Method of cleaning up : disperse vapour with water spray.

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VII. HANDLING AND STORAGE

- 7.1 Precautions during handling : do not use in the vicinity of naked flames and sources of heat.
- 7.2 Precautions during storage : store in a suitable approved location away from sources of heat and ignition.
- 7.3 Packing materials : aerosol containers.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Special protective measures : use in well ventilated areas.
Respiratory : avoid exposure to vapour.
Hand : avoid contact
Eye : avoid contact
Skin : avoid contact
- 8.2 Exposure limits : long term (8hr TWA) : 600 ppm
: short term (10 mins) : 750 ppm

IX. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Physical state : colourless liquefied gas
- 9.2 Odour : odourless
- 9.3 Temperature characteristics : boiling point : -11°C
- 9.4 pH : not applicable
- 9.5 Solubility – in water : insoluble
- 9.6 Vapour pressure (25 °C) : 3.18 – 3.46 bar (3.24 – 3.53 kg/cm²)
- 9.7 Specific Gravity of liquid (25 °C) : 0.552
Specific Gravity of vapour (15 °C) : 1.91 (air = 1)
- 9.8 Flammability
- flash point : -74 to -104 °C
- auto ignition temperature : 405 - 550 °C
- flammable limits : 1.8 – 10.0% in air

X. STABILITY AND REACTIVITY

- 10.1 Stability : can form explosive mixtures with air.
- 10.2 Conditions/materials to avoid : strong oxidizing agents, peroxide, plastics, chlorine dioxide, and concentrated nitric acid.
- 10.3 Hazardous decomposition products : normally carbon dioxide (carbon monoxide if deficiency in oxygen supply)

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XI. TOXICOLOGICAL INFORMATION

- 11.1 Toxicological data
- 11.2 Effects of exposure
- eyes : not applicable, product is a gas.
 - skin : not applicable, product is a gas.
 - inhalation : not determined.
 - ingestion : not applicable, product is a gas.
 - carcinogenicity : no known behaviour.
 - mutagenicity : no known behaviour.
 - tetragenicity : no known behaviour.

XII. BIOLOGICAL INFORMATION

- 12.1 Mobility : evaporates into atmosphere
- 12.2 Persistence and degradability : degrades under atmospheric conditions.
Hydrocarbons have zero ozone depletion potential.
- 12.3 Ecotoxicity : no known ecological damage caused by this product.

XIII. DISPOSAL CONSIDERATIONS

- 13.1 Disposal of product : do not discharge into areas where there is a risk of forming an explosive mixture.
- 13.2 Disposal of packaging : as with other aerosol packaging.

XIV. TRANSPORT INFORMATION

- 14.1 UN No. : 1950 (Aerosols)
- 14.2 UK road
- Hazchem Code : 2WE
 - Classification : flammable gas
- 14.3 RID-ADR : Class 2, Liquefied Gas (2,3b)
- 14.4 IATA/ICAO : Flammable Gas

