1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

Product Name: Ronson Butane Refill Synonyms, Trade Names: Butane Fuel 90ml to 400ml

Applications:

Gas lighter fuel

Supplier:

Ronson International Ltd.

International House, Old Brighton Road,

Lowfield Heath. Crawley, West Sussex. RH11 0QN

Emergency Telephone: 01293 843600 (office hours only)

COMPOSITION/INFORMATION ON INGREDIENTS 2.

Ingredient Name CAS No Contents Health Risk (class) (R No.)

Butane 106 - 97 - 8 99%

Composition Comments Substances indicating a hazard do so under EC Directives 88/379 & 67/548

Aerosol classified as Flammable

3. HAZARDS IDENTIFICATION

Substances not indicating a health hazard may have Occupational Exposure Limits detailed in Section 8 of this data sheet

Ingredients are below the levels to cause the product to be classified

4. FIRST AID MEASURES

General: Note! Keep affected person away from heat, sparks and flames!

Promptly wash eyes with water while lifting the eyelids. Get medical attention Eyes:

> Immediately. Continue to rinse. Burns should be flushed with water to normalise Temperature. Cover eyes with sterile dressing. Do NOT apply ointments or powder.

Skin: 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.

Move the exposed person to fresh air at once. Perform artificial respiration if Inhalation:

breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person

warm and at rest. Get prompt medical attention

Ingestion: NEVER MAKE AN UNCONCIOUS PERSON VOMIT OR DRINK FLUIDS.

DO NOT induce vomiting Get medical attention immediately.

FIRE FIGHTING MEASURES 5.

Extinguishing Media Stop flow of material to fire. Fire can be extinguished using foam, dry chemicals, and sand dolomite etc.

Special Fire Fighting Procedures

Use water to keep fire exposed cool and disperse vapours. Cool containers exposed to flames with water from side until well after fire is out. Move container from fire area if it can be done without risk.

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Unusual Fire & Explosion Hazards

Extremely flammable. May explode in a fire. May travel considerable distance

to source of ignition and flashback.

Hazardous Decomposition Products

Toxic gases/vapours/fumes of carbon monoxide (CO), carbon dioxide (CO₂)

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6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup Methods

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

Ventilate, exhaust aerosol in well-ventilated area.

7. HANDLING AND STORAGE

Usage Precautions Keep away from heat, sparks and open flame

Storage Precautions Flammable/combustible. Keep away from oxidizers, heat and flames. May attack

some plastics, rubber and coatings.

Storage Criteria Flammable compressed gas storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Name: CAS No. STD LT EXP ST EXP

(8 hrs) (15 min)

Butane 106-97-8 OES 600 ppm 750 ppm

Ingredient comments Aerosol propellant

Protective Gloves Use protective gloves made of rubber (natural, latex)

Ventilation Well ventilated area

RespiratorsNo specific recommendation made, but respiratory protection must be used

If the general level Occupational Exposure Level (OEL)

Eye Protection Under normal use should not be required. Always direct nozzle away from the face

Other Protection Use in well ventilated area

Colour

9. PHYSICAL AND CHEMICAL PROPERTIES

colourless

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Appearance

Odour/taste mild (or faint), disagreeable

Physical Data Comments this product is an aerosol using hydrocarbon propellants. The flammability

data is based on these hydrocarbons.

Solubility Description Slightly soluble in water

Specific Gravity (Water = 1) 0.599 @ 20°C Mol Weight (At WT) 58.14

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gas

1520 @ 18°C Vapour Density (air = 1) Vapour Pressure (mmHg 2.05

-137 °C **Melting Point**

-60 °C Flash Point **Flash Point Method** CC (closed cup)

405 °C **Auto ignition Temperature**

Flammability Limit lower % 1.90

Flammability Limit upper % 8.50

10. STABILITY AND REACTIVITY

Stability Avoid heat, sparks and flames

Materials to avoid Strong oxidizing agents

Conditions to avoid Evaporates easily in air. Reacts strongly with oxidizers.

Hazardous Decomposition Products

Toxic gases/vapours/fumes of carbon monoxide (CO) carbon dioxide (CO₂)

11. **TOXICOLOGICAL INFORMATION**

Toxic Conc.-LC50 680 ppm/2h (inh - mus)

Target organs Central nervous system, eyes, respiratory system and lungs

Health Warnings Gas or vapour displaces oxygen available for breathing (asphyxiant).

Narcotic effect

Medical Symptoms May cause suffocation. Dizziness.

Acute and chronic health hazards

Contact with liquid form may cause frostbite.

12. **ECOLOGICAL INFORMATION**

13. **DISPOSAL CONSIDERATIONS**

Disposal Methods Vent to atmosphere

Empty Containers Dispose of empty containers without puncturing **DO NOT INCINERATE**

TRANSPORT INFORMATION

ROAD:

UN No 1950 Hazchem Code 2WE ADR Item No. ADR Class 2 3b

ADR Hazard No. 23 Flammable Gas

CEFIC TEC ® No. 276 ADR Label No. 3

Label for conveyance

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AIR:

UN No. 1950 Air Transport Class No. 2

AIR Sub Class 3

SEA:

UN No. 1950 Sea Transport Class No. 2(2.1)

RAIL:

Road PT. **Rail Transport Class No 2** 3b

15. REGULATORY INFORMATION

Label for Supply

-User Notes

Risk Phrases Flammable R 10

Safety Phrases S - 9 Keep container in well ventilated place

Keep away from sources of ignition - NO SMOKING S - 16

Take precautionary measures against S - 33

Static discharges

16. OTHER INFORMATION

This product is supplied in an aerosol form using a highly flammable gas as a propellant. Properly used for the intended purpose and in accordance to this

safety data sheet should not present any undue hazard.

Information Sources Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax,1984

OSHA Air Contaminants - Permissible Exposure Limits (Title 29)

Handbook of Toxic and Hazardous Chemicals and Carcinogens, Sittig, '85 Hazardous Materials, Emergency Response Guidebook, DOT-P 5800.3, 1984

NIOSH/OSHA Pocket Guide to Chemical Hazards (latest edition) Threshold Limit Values and Biological Exposure Indices for 1994 - 95

Chemical Safety Data Guide. Bureau of National Affairs, 1985

SDS No: 1001

Revision Date: January 2011

Revision No./Replaces: SDS issued 01 09 95

Revision Comments: New Safety Data to CHIP format

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