

SAFETY DATA SHEET RONSON BUTANE REFILL

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

APPLICATION: **RONSON BUTANE REFILLS (90ml to 400ml)**

SUPPLIER: Ronson International Ltd.
Station Works
Long Buckby
Northampton NN6 7PF
United Kingdom

EMERGENCY TELEPHONE: 01327 841 500 (office hours only)

2 HAZARDS IDENTIFICATION

Extremely flammable
Liquefied gas

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Components/Impurities	Preparation Contains the following components: 54% Butane n- {F+;R12} {EINECS No. 203-448-7}/24% Isobutane {F+;R12} {EINECS No. 200-857-2}/22% Propane {F+;R12} {EINECS No. 200-827-9}
EC Nr (from EINECS)	Not applicable for preparations

4 FIRST AID MEASURES

INHALATION

In low concentrations - may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
In high concentrations - may cause asphyxiation. Symptoms may include loss of mobility/consciousness.
Victim may not be aware of asphyxiation.

Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

SKIN/EYE CONTACT

In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing.
Immediately flush eyes thoroughly with water for at least 15 minutes.
Obtain medical assistance

INGESTION

Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES

SPECIFIC HAZARDS

Exposure to fire may cause containers to rupture/explode.

HAZARDOUS COMBUSTION PRODUCTS

Incomplete combustion may form carbon monoxide.

SUITABLE EXTINGUISHING MEDIA

All known extinguishants can be used.

SPECIFIC METHODS

If possible, stop flow of product.
Move away from the container and cool with water from a protected position.
Do not extinguish a leaking gas flame unless absolutely necessary.
Spontaneous/explosive re-ignition may occur. Extinguish any other fire.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Evacuate area.

Ensure adequate air ventilation.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Eliminate ignition sources.

ENVIRONMENTAL PRECAUTIONS

Extinguish all naked flames and sources of ignition; disperse vapour.

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

CLEAN UP METHODS

Ventilate area.

Keep area evacuated and free from ignition sources until any spilled liquid has evaporated. (Ground free from frost).

7 HANDLING AND STORAGE

HANDLING AND STORAGE

Keep away from ignition sources (including static discharges) and naked flames.

Keep containers below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUE FOR COUNTRY

UK: Butane n- - LTEL: 600ppm; STEL: 750ppm (EH40/2002)

UK: Isobutane - LTEL: 600ppm; STEL: 750ppm (EH40/2002)

PERSONAL PROTECTION

Ensure adequate ventilation.

Do not smoke while handling product.

Protect eyes, face and skin from liquid splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling point	-11 °C
Relative density, gas	1.91 (air = 1)
Relative density, liquid	0.559 (water = 1)
Vapour Pressure 20°C	2.73 bar
Vapour Pressure Range 70°F	38-42 psig
Solubility mg/l water	No reliable data available.
Appearance/Colour	Colourless liquid
Odour	No odour warning properties.
Other data	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Can form explosive mixture with air.

May react violently with oxidants.

11 TOXICOLOGICAL INFORMATION

General	Butane n	In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
	Isobutane -	In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.

12 ECOLOGICAL INFORMATION

No known ecological damage caused by this product.

13 DISPOSAL CONSIDERATIONS

Do not discharge into areas where there is a risk of forming an explosive mixture with air.

Do not discharge into any place where its accumulation could be dangerous.

Contact supplier if guidance is required.

14 TRANSPORT INFORMATION

Proper shipping name	AEROSOL
UN Nr	1950
Class	2
ADR/RID Classification code	2
Packing group	None
Labeling ADR Label	2.1: flammable gas
IMDG EmS codes	F-D, S-U
IMDG Marine pollutant	No
IATA passenger packing instruction	Forbidden
IATA passenger max. quantity/pack	Forbidden
Other transport information	Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured and that there is adequate ventilation. - compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548	Not applicable for preparations
EC Classification	F+; R12
-Symbols	F+: Extremely flammable
Labeling of cylinders	-Symbols Label 2.1: flammable gas -Risk phrases R12 Extremely flammable. -Safety phrases S9 Keep container in well ventilated place. S16 Keep away from ignition sources - No smoking. S33 Take precautionary measures against static discharges.

16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Ensure operators understand the flammability hazard.

The hazard of asphyxiation is often overlooked and must be stressed during operator training

Contact with liquid can cause cold burns /frost bite

Users of breathing apparatus must be trained

This safety data sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws

Details in this document are considered to be correct at the time of writing. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.