

SAFETY DATA SHEET

SDS Reference No: **0101-02-03-05-11-12-18-26-143**

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Revision No: **1**

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Identification of the product: **Portasol Soldering Irons/Kits, Blowtorches, Associated tips and accessories.**
- 1.2 Company Identification: Oglesby & Butler Ltd.
O'Brien Road
Carlow
Ireland
- 1.3 Emergency Contact No: 00 353 59 9143333
(office hours only)
- 1.4 Recommended Use: Soldering, Blow Torch, Hot Blow and Hot Knife applications.
- 1.5 Restrictions on Use: Do not use near naked flame or combustible materials.

2. HAZARDS IDENTIFICATION

- 2.1 Eyes (when filling):
(Butane Gas) Contact with liquid or butane gas under pressure can cause frostbite (cold burns).
- 2.2 Skin (when in use):
(Butane Gas – when filling) During and after use unit becomes hot very quickly, do not touch tip or surrounding area, will cause burns.
Contact with liquid or butane gas under pressure can cause frostbite (cold burns).
- 2.3 Inhalation: (when filling)
(Butane Gas) May cause irritation to nose and throat, headache, nausea, vomiting, dizziness, euphoria, drowsiness.
In poorly ventilated or confined areas, unconsciousness and asphyxiation may result.
- 2.4 Label Elements
(Butane Gas Only) Classification according to Directive 67/548/EEC or 1999/45/EC as ammended. Signal Words: Danger



- 2.5 Hazard Identification (Butane Gas Only) H220 Extremely Flammable Gas
- 2.6 Precautionary Statement (Butane Gas Only) P210 Keep away from Heat/Sparks/Open Flames/Hot Surfaces/No Smoking.

3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 Iron/Kit Nylon Plastic, Brass, Mild & Stainless steel, Metal catalyst, Iron & Nickel plating.
- 3.2 Chemical Composition: (Butane Gas) Blend of hydrocarbons consisting primarily of propane, iso-butane and n-butane. (refer to Butane suppliers SDS)

4. FIRST AID MEASURES

- 4.1 Eye Contact: (Butane Gas) Flush immediately with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surfaces of eye and lids with water. Get immediate medical attention.
- 4.2 Skin Contact: (Butane Gas) In case of hot burns, place the affected area in cold water. Get immediate medical attention. In case of cold burns, immediately place affected area in tepid to warm water and keep immersed until circulation returns.
- 4.3 Inhalation of Butane: (Gas vapours or fumes) 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: (Butane Gas) No emergency care anticipated, since product is a gas under normal conditions. Severe inhalation/over exposure may sensitize the heart to catecholamine-induced arrhythmias. Do **NOT** administer catecholamine's to an over exposed person. Never make an unconscious person vomit or drink fluids. Do not induce vomiting and seek medical advice.

5. FIRE FIGHTING MEASURES

- 5.1 Special fire/explosion: Hazard (Butane Gas) Can form explosive mixtures with air.
- 5.2 Products of Combustion: (Butane Gas) Oxides of carbon.
- 5.3 Fire fighting procedures/ Extinguishing media Dry powder only. Keep hot iron away from combustible materials.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Protection: Avoid contact with liquid and vapour.
(Butane Gas)
- 6.2 Environmental Precautions (Butane Gas) Extinguish all naked flames and sources of ignition, disperse vapour.
- 6.3 Methods of Cleaning Up: Disperse vapour with water spray.
(Butane Gas)

7. HANDLING AND STORAGE

- 7.1 Precautions during Handling: Do not use in the vicinity of naked flames and sources of heat.
Use only as per instructions supplied.
- 7.2 Precautions during Storage: Store away from sources of heat and ignition.
Store in suitable storage box allow unit to cool before storage.
- 7.3 Packing Materials: Cardboard / Plastic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Special Protective Measures: Use in well ventilated areas. Do not use in confined spaces
Keep away from direct heat and sunlight. Do not place in fire or near a naked flame. Do not expose to temperature exceeding + 50°C (+120°F). Do not puncture or pierce even after use. Do not incinerate. When operating, ensure you are not near naked flames or combustible materials. Do not leave unit unattended. Point away from body and face when igniting. Ensure unit is cool before removing or replacing tip. During and after use unit becomes hot very quickly; do not touch tip or surrounding area. If unit is leaking switch off and leave in an open well-ventilated area until empty and return to purchase outlet.
- 8.2 Respiratory: Avoid exposure to butane gas vapour.
Hand: Avoid contact with butane gas.
Eye: Avoid contact with butane gas.
Skin: Avoid contact with butane gas.
Exposure Limits (gas): Long-term (8hr TWA) : 600ppm
Short-term (10 min) : 750 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Physical State: Nylon Plastic, Brass, Mild & Stainless steel, Metal catalyst, Iron & Nickel plating.
- 9.2 Odour (Butane Gas): Odourless.

9.3	Temperature Characteristics: (Butane Gas)	Boiling point: -1°C
9.4	Solubility in Water: (Butane Gas)	Slightly soluble.
9.5	Vapour Pressure (20°C): (Butane Gas)	2.66 - 2.94 bar.
9.6	Specific Gravity: (Butane Gas)	0.599 @ 20°C.
9.7	Flammability: (Butane Gas)	Liquid (25°C). Vapour (15°C)
	- Flash Point:	-60°C
	- Auto-ignition temperature:	405°C
	- Flammable limits:	1.9 – 8.5% in air.

10. STABILITY AND REACTIVITY

10.1	Stability (Butane Gas):	Can form explosive mixtures with air.
10.2	Conditions/materials to avoid: (Butane Gas)	Strong oxidising agents, peroxide, plastics, chlorine dioxide and concentrated nitric acid.
10.3	Hazardous Decomposition: Products (Butane Gas)	Normally carbon dioxide (carbon monoxide if deficiency in oxygen supply).

11. TOXICOLOGICAL INFORMATION

11.1	Effects of exposure to Butane Gas:	
	Eyes:	Not applicable.
	Skin:	Not applicable.
	Inhalation:	Not determined.
	Ingestion:	Not applicable, product is a gas.
	Carcinogenicity:	No known behaviour.
	Mutagenicity:	No known behaviour.
	Tetratogenicity:	No known behaviour.

12. BIOLOGICAL INFORMATION

12.1	Mobility (Butane Gas):	Evaporates into atmosphere.
12.2	Persistence and degradability: (Butane Gas)	Degrades under atmospheric conditions.
12.3	Ecotoxicity:	No known ecological damage caused by this product.

13. DISPOSAL CONSIDERATIONS

- 13.1 Disposal of Product: Do not puncture. Do not incinerate. Do not discharge gas into areas where there is a risk of forming an explosive mixture.
- 13.2 Disposal of Packaging: Recycle cardboard and plastic packaging.

14. TRANSPORT INFORMATION

- 14.1 Not Regulated

15. REGULATORY INFORMATION

- 15.1 Hazard Statement (Butane Gas Only) H220 Extremely Flammable Gas
- 15.2 Precautionary Statement (Butane Gas Only) P210 Keep away from Heat/Sparks/Open Flames/Hot Surfaces/No Smoking.
- 15.3 Classification/Symbol: (Butane Gas Only) GHS-02
- 15.4 Exposure Limits: (Butane Gas Only) Long-term (8hr TWA) 600 ppm
Short-term (10 mins) 750ppm

16. OTHER INFORMATION

- 16.1 Recommended Uses: Various as per manufacturers recommendations.
- 16.2 Sources of Data Used: Suppliers' Data Sheets.

This information is given in good faith and is based on information and tests believed to be reliable. This document is not a specification and properties shown are not guaranteed.

In-line with general product specification. Always satisfy suitability for specific application. The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It's the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.