



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> Ronson Multi-Fill Butane	
<b>DATE:</b> February 17, 2010	
TRADE NAME: Ronson Multi-Fill Butane GENERAL USE: Lighter Fuel CHEMICAL FAMILY: PARAFFIN SERIES HYDROCARBON PRODUCT DESCRIPTION: CLEAR, COLORLESS, ODORLESS LIQUEFIED GAS.	
<b>MANUFACTURED BY:</b> <b>Zippo Manufacturing Company</b>	DATE PREPARED: February 17, 2010 SUPERSEDES: 02/03/2010 issue.
ADDRESS (NUMBER, STREET, P.O. BOX) 33 Barbour Street	TELEPHONE NUMBER FOR INFORMATION / Customer Service (814) 368-2700
(CITY, STATE AND ZIP CODE) COUNTRY Bradford, PA 16701 USA	<b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER</b>  1-800-255-3924 01-813-248-0585 North America Toll Free International

## SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	MOL%	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Petroleum gases, liquefied, sweetened	100	68476-86-8	270-705-8	(+F)	R12

**Notes:** THIS PRODUCT IS DEFINED BY OSHA IN 29 CFR 1910.1200c AS A FLAMMABLE GAS. USE OF THIS PRODUCT MAY REQUIRE COMPLIANCE WITH 29 CFR 1910.119, PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS.

## SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
 Contact with evaporating liquid may cause frostbite. Under normal conditions of storage and use of this product will not constitute a health hazard. However if released, being heavier than air, this product may collect in any confined space and may reach concentrations presenting an asphyxiation or safety hazard and may be ignited by pilot lights, other flames, sparks, heaters electric motors, static discharge, or other sources of ignition.

**POTENTIAL HEALTH EFFECTS**  
**INHALATION:**  
 Inhalation of vapor may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness, or death from asphyxiation, depending upon concentration and period of exposure.

**SKIN:**  
 Direct contact of the skin with this product may cause frostbite or cold burns and containers may present a similar hazard when gas is being withdrawn, due to the cooling effect. Handling precautions should be strictly observed.

**EYES:**  
 Liquid can cause severe irritation, redness, tearing, blurred vision, and possible freeze burns.

**INGESTION:**  
 Aspiration Hazard.

**CARCINOGENICITY:**  
 NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No  
 CALIFORNIA, Prop.65? No ESIS?, (Europe) No

## SECTION 4 - FIRST AID MEASURES

**INHALATION:**  
 Remove victim to fresh air. IF BREATHING HAS STOPPED, RESTORE BREATHING AT ONCE. Apply artificial respiration or oxygen if needed. Get medical attention immediately.

**EYES:**  
 Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists. CONSULT PHYSICIAN IMMEDIATELY IF FROSTBITE OCCURS.

**SKIN:**  
 For liquid contact, warm areas gradually and get medical attention. If there is evidence of tissue damage, flush area with plenty of water.

**INGESTION:**  
 Do not induce vomiting unless directed to do so by a physician or poison control center. Get immediate medical attention.

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## SECTION 5 - FIRE FIGHTING MEASURES

**GENERAL HAZARDS:**  
 Highly Flammable Flash Point -132.23 to -156.0 F ,LEL=1.8% vol in air,UEL= 9.5% vol. in air.

**EXTINGUISHING MEDIA:**  
 Dry Chemical (B-C), water.

**FIRE FIGHTING PROCEDURES:**  
 Keep containers cool using water spray to avoid bursting. Evacuate area. Avoid accumulation of unburned materials. Remove personnel in general area. Observe maximum isolation when extinguishing fire. Expansion of liquid and change of state from liquid to vapor will allow combustible mixture to encompass a large area.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
 Vapors are heavier than air and may travel along the ground or may be moved by ventilation systems and ignited by pilot lights, open flames, sparks, heaters, smoking instruments, electric motors, static discharge, or other ignition sources at locations in proximity of the material handling point. If a fire occurs, the potential always exists for an explosion known as boiling liquid expanding vapor explosion (BLEVE)

**HAZARDOUS COMBUSTION PRODUCTS:**  
 CO, CO2 and hydrocarbons.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

**Containment Procedures**  
 Stop leak if possible. Eliminate all sources of ignition. Prevent vapor from entering sewers, basements or confined areas.

**Clean-Up Procedures**  
 Evacuate all personnel and remain upwind of leak.

**Evacuation Procedures**  
 Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure.

**Special Procedures**  
 Wear appropriate personal protection equipment.

## SECTION 7 - HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

**Handling Procedures**  
 Avoid high temperatures that may elevate component pressure above container rating. Do not get into eyes; prevent contact with skin and clothing. Do not breathe dust. If product is placed in solution, take precautions to avoid breathing mists. When using, do not eat, drink, or smoke. Remove all contaminated clothing and wash before reuse. Wash thoroughly after handling.

**STORAGE PRECAUTIONS:** Store in a cool well ventilated area. Do not store at temperatures above 120°F which may cause container to burst. Do not puncture or incinerate containers. Keep out of the reach of children. Small containers e.g. cylinders of approved design, properly sealed and in good condition, should be stored outdoors or in well ventilated storerooms, at no lower than ground level and must be quickly removable in an emergency. Eliminate all sources of ignition from the storage area.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
Petroleum gases, liquefied,sweetened	800	1900			800		800	NE

### PERSONAL PROTECTION

**RESPIRATORY PROTECTION:**  
 For exposures above PEL Limits, use NIOSH or EN-149 (European) approved respirator to control exposure when TWA exceeded. Maintain adequate ventilation.

**PROTECTIVE GLOVES:**  
 Chemical resistant ,impervious, and insulated.

**EYE PROTECTION:**  
 Faceshield or Goggles.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**  
**VENTILATION**  
**MECHANICAL:** Provide as needed to keep concentration in air below TLV and LEL.  
**LOCAL EXHAUST:** Continuous ventilation recommended.  
**SPECIAL:** Explosion proof fans and motors.

**WORK / HYGIENIC PRACTICES:**  
 Comply with state and local regulations covering liquefied petroleum gases. Comply with NFPA Pamphlet #58. Store small containers in well-ventilated areas, away from heat or sources of ignition. Prohibit smoking in areas of storage or use.



