Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1216-0072

IDENTITY (As used on Label and List) RONSON
ISOBUTANE (MULTI-FILL BUTANE)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I Chemical Family: Alkane **Aeropres Designation: AEROPRES 31 (A-31)**

Manufacturer's Name:
Aeropress Corporation for Ronson Corp.

Emergency Telephone Number:
(318) 221-6282 or CHEMTREC: 1-800-424-9300

Address (Number, Street, City, Sate and ZIP Code)
1324 N. Hearne Ave., Suite 200 (71107)

Telephone Number for Information
(318) 221-6282

P.O. Box 78588

Date Prepared
April 2006

Shrevereport, LA 71137-8588

Signature of Preparer (optional)
Harry B. McCain

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))

CAS# 75-28-5

ISOBUTANE TLV 800ppm

HMIS = (Health = 1 / Fire = 4 / Reactivity = 0)

DOT SHIPPING INFORMATION:
Shipping Name: **BUTANE**
Hazard Class: **Flammable Gas 2.1**
I.D. Number: **UN 1011**
DOT Label: **Flammable Gas**
DOT Placard**: Flammable Gas / 1011**
DOT / IMO LABEL
Shipping Containers: **Cartons**

ISOBUTANE PEL UNKNOWN

Listed in TSCA

This product contains no chemicals reportable under California's Safe Drinking Water/Toxic Enforcement Act (Proposition 65)

Molecular Composition (+ or – 5%)

PROPANE	**0.000**	**MOLE%**
ISOBUTANE	**100.000**	**MOLE%**
N-BUTANE	**0.000**	**MOLE%**

Section III – Physical/Chemical Characteristic

Boiling Point @ 1 ATM Degrees F	**10.90**	Specific Gravity (H2O = 1)	**0.5624**
Vapor Pressure (psig @ 70F)	**31**	Melting Point	**N/A**
Vapor Density (AIR = 1)	**2.0068**	Evaporation rate (Butyl Acetate = 1)	**N/A**

Solubility in Water
Slight **100% Volatile Organic Compound**

Appearance and Odor
Clear, odorless gas

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used: Closed Cup Degrees F) **-120.00 Extremely Flammable**	Flammable Limits **In Air Volume %**	LEL **1.8**	UEL **9.5**

Extinguishing Media
Carbon Dioxide, dry chemical, mist or water spray

Special Firefighting Procedures
Confine fire to immediate area; disperse liquid or vapor if spill occurs; shut off source

of leak if possible.

Unusual Fire and Explosion Hazards
Fire Hazard – dangerous.

Explosion hazard – moderate.

Section V – Reactivity Data

Stability	Unstable	**N/A**	Conditions to Avoid
	Stable	X	**N/A**

Incompatibility (Materials to Avoid)
Reacts vigorously with oxidizing materials.

Hazardous Decomposition or By products
None except asphyxiation by displacement.

Hazardous Polymerization	May Occur	**N/A**	Condition to Avoid
	Will Not Occur	**X**	**None Known**

Section VI – Health Hazard Date

Route(s) of Entry:	Skin?	Eye?
Inhalation Only	None	None

Health Hazard (Acute and Chronic)
Acute Exposure: nausea, vomiting, coughing and pulmonary irritation

Chronic exposure: dizziness, weakness, peripheral numbness and nervousness.

Emergency and First Aid Procedure
Contact with liquid can freeze tissue, similar to thermal burn. May cause frostbite.

Inhalation - not considered carcinogenic. Variable simple asphixyant /anesthetic.

Ingestion – Product does not lend itself to ingestion. Skin – No absorption through the skin.

Signs and Symptoms of Exposure
(Non toxic but may displace oxygen in air). No apparent ill effects in breathing conc of 5%

for 2 hours. Causes drowsiness in a short time in concentrations of 1%.

Medical Conditions
Generally Aggravated by Exposure

Respiratory related chronic illness (i.e. asthma, etc.)

Notes to Physician
Simple asphixyant / Frost bite.

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
Remove all Ignition sources. If applicable stop leak. Disperse vapors with water spray.

No smoking, flames or flares in hazard area.

Isolate hazard area and deny entry of non qualified emergency response personnel.

Waste Disposal Method
Dispose of product in accordance with applicable local, state and federal regulations.

Precautions to be Taken in Handling and Storage
Product is highly flammable and forms explosive mixtures with air, oxygen and all oxidizing

agents. Avoid high temperatures that may elevate component pressure above container rating.

Other Precautions
Use and store this product with adequate ventilation; use non sparking tools; electrically

ground all equipment and lines; use explosion proof equipment. (Class I group D, Division 1 & 2)

Section VIII – Control Measures

Respiratory Protection (Specify Type)
None

Ventilation	Local Exhaust To meet exposure limits.	Special Class I Group D, Division 1 & 2 (NEC)
	Mechanical (General) To meet exposure limits.	Other N/A

Protective Gloves
Impermeabe type-nitrile rubber

Other Protective Clothing or Equipment
To prevent repeated or prolonged skin contact, wear impervious clothing

Work/Hygenic Practices
Availability of eyewash and safety shower station recommended.

Section IX – Toxicological Information

Acute Inhalation of Isobutane:

LC_0 32 Vol % in Air
LC_{50} 52 Vol % in Air
LC_{100} 65 Vol % in Air

Animal: Laboratory Rats

Cardiac Arrhythmia due to Inhalation of Isobutane:

Concentration Threshold 10 + 20 Vol %
Animal: monkey, mice, dogs
Concentration to produce cardiac arrest – Not determined (cardiac arrest will occur with total exposure and oxygen deprivation.

Teratogenic Studies
Modified Ames Test
Isobutane not teratogenic under test conditions, six-hour exposure, followed by incubation for 42 additional Hours before scoring.