FOR TRANSPORTATION EMERGENCY CONTACT:
CHEM•TEL INC. **1-800-255-3924**

MSDS

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BUTANE FUEL BU1 & BU5

HMIS Hazard Class:

Health	= 1
Flammability	= 4
Reactivity	= 0

MATERIAL IDENTIFICATION

Marketer: Solder-It, Inc.
404 Irvington Street
Pleasantville, NY 10570

Phone Number: 914-747-1092
Transportation Emergency:

Chemical Trade Name, synonyms: A-28

Chemical Family: Petroleum Hydrocarbon, Alkane

Chemical Formula: mixture

COMPONENTS

Material	CAS Number	PEL/TLV, Source		Percent
Isobutane (volume)	75-28-5	Not Established	78	
n-butane (volume)	106-97-8	800 ppm, OSHA		22

PHYSICAL DATA

Boiling Point	appox. -11.7°F
Pressure in can at 70°F	Approx. 28 psig
Vapor Density (Air=1)	Greater than 2.0
Solubility in water	Less than 0.1% By Weight @ 70F
Specific Gravity (Water=1)	0.5676

Percent Volatile by weight	100%
Evaporation Rate (BuAce=1)	Gas
Appearance and odor	Liquefied compressed gas, flash evaporates at room temperature when released from can, colorless gas with strong mercaptan (skunk-like) odor due to stenching agent added to gas for leak detection purposes.

HAZARDOUS REACTIVITY

Stability	Stable
Conditions to avoid	Contact with sparks, open flame or any source of ignition.
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	May produce carbon monoxide when oxidized with a deficiency of oxygen.

FIRE AND EXPLOSION DATA

Flammability Category	Extremely Flammable (Reference - Consumer Product Commission, flame projection test for aerosol products, per 16 CFR 1500.45)
Flash Point	Less than -117°F
Flammable Limits	LEL% 1.8 UEL% 8.4
Extinguishing Media	If feasible, stop flow of gas. Use water to cool fire-exposed cans, surroundings and to protect personnel working on shut off. Water spray, dry powder or carbon dioxide can be directed at flame area, if gas flow cannot be stopped, to reduce fire intensity. DO NOT COMPLETELY EXTINGUISH FLAME UNLESS GAS FLOW IS SHUT OFF!
Unusual Fire and Explosion Hazards	Avoid possible bursting of aerosol can. Do not store where temperature may exceed 120°F. Do not puncture or incinerate.
Special Fire Fighting Procedures	Avoid possible accumulations of vapors at floor level, as vapor is heavier than air. Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. This product is extremely flammable at all times. Keep away from any sources

of inadvertent ignition, including heat, fire, sparks, or flame.

HEALTH HAZARD INFORMATION

Suggested Exposure Guideline	800 ppm
Primary Route of Exposure	Inhalation, skin contact
Inhalation	This product is an asphyxiate and may exhibit anesthetic properties at very high concentrations. Initial symptoms of exposure at these concentrations are disorientation, lack of coordination, rapid respiration, headache, and nausea. Continued exposure may result in unconsciousness, coma, and and possible death.
Skin Contact	Contact with liquefied gas or gas under pressure may cause skin burns and frostbite.
Eye Contact	The gas phase is not expected to cause eye irritation. However, the liquid can cause frostbite and burns. This hazard evaluation is based on the data from similar materials.
Carcinogenicity	None of the components in this material are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

FIRST AID

Inhalation	Remove to fresh air. Artificial respiration, consult physician.
Skin Contact	Treat burned or frostbitten skin by flushing or immersing affected areas in lukewarm water. If skin is not burned, keep warm and stimulate circulation with massage. Seek immediate medical attention.
Eye Contact	Flush eyes well with running water for 15 minutes.
Ingestion	NA, product is gaseous at normal temperature and pressure. exhibited no cardiac or pulmonary function abnormalities.

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Protect from any ignition source, keep away from heat, fire, sparks, or flame. Ventilate area well. Avoid accumulation of vapor at low levels.
Waste disposal method	Dispose of in accordance with all local, state and federal

regulations. Do not puncture or incinerate.

SPECIAL PROTECTION INFORMATION

Respiration Protection	If TLV is exceeded wear NIOSH-approved self-contained breathing device or respirator.
Ventilation	Must be adequate to maintain vapors at less than 800 ppm, particularly at floor level as vapors are heavier than air.
Protective gloves	None needed for normal use. Solvent-resistant rubber type recommended if prolonged exposure expected.
Eye Protection	Safety glasses or goggles recommended

HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken in handling and storage	Do not store where temperature may exceed 120°F. Store away from, fire, sparks, or flame. Store in suitable area for hazardous materials storage.

SPECIAL PRECAUTIONS

Precautions for usage	Do not use near heat, fire, flame or sparks. Avoid excessive breathing of vapor. Do not spray in direction of body. Use only in accordance with directions.

End of MSDS