

Material Safety Data Sheet  
 May be used to comply with COHA'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. 1218-0072

IDENTITY (as USED on Label and List) Nonrefillable type metal container assembly for butane	MAGNA (160g TYPE)	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.
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Section I

Manufacturers name M.I.T.LIMITED	Emergency Telephone Number 82-2-711-9160
Address (Number, Street, City, and ZIP code) (140-846)	Telephone Number for Information SAME AS ABOVE
2ND FLOOR,108-16,1-GA,WONHYO-RO,YONGSAN-GU SEOUL, KOREA	Date Prepared DEC. 23. 2010.
	Signature of Preparer (optional) Trade Dept.

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLY	Other Limits Recommended % (optinal)
ETHANE(C2H6)	N/A	N/A	0.7787
PROPANE(C3H8)	N/A	N/A	26.46320
N-BUTANE(N-C4H10)	N/A	N/A	44.67604
ISO-BUTANE(ISO-C4H10)	N/A	N/A	28.08197

Section III – Physical/Chemical Characteristics

Boiling Point	1.33°C	Specific Gravity (H2O = 1)	0.582
Vapor Pressure (mm Hg)	2.1/20°C	Melting Point	-139.28°C
Vapor Density (AIR Hg)	2	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water ; Insoluble

Appearance and Odor ; Colourless with Characteristic odour

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) ; UNDER -23°C	Flammable Limits	LEL 1.8%	UEL 8.5
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Extinguishing Media

Dry chemical powder, foam or carbon dioxide.

Special Fire Fighting Procedures

Move container from areas if it can be done without risk.  
 Firefighters should wear proper protective equipment. Keep personnel removed from and up wind of fire.  
 Stop flow of gas before attempting to extinguish fire. Gases could foam explosive mixture and reginite.  
 Evacuate personnel to safe area. Fright fire from maximum distance.  
 Use extreme caution, as heat may decompose material and repture containers.

Unusual Fire and Explosion Hazards

None known

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	Yes	

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	Yes	

Section VI Health Hazard Data

Route(s) of Entry                      Inhalation? Yes                      Skin? Yes                      Ingestion? No

Health Hazards (Acute and Chronic)

None known

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
None known	No	No	No

Signs and Symptoms of Exposure

Dizziness, Headache, Laboured breathing, Nausea, Vomiting, Frostbite

Medical Conditions

Generally Aggravated by Exposure

None known

Emergency and First Aid Procedures

Inhalation : Get to fresh air. If unconscious, qualified personnel should administer artificial respiration.

Eyes : In case of contact with eyes, rinse immediately with plenty of water for at least 15~20 minutes and seek medical advice.

Skin : Wash thoroughly with soap and water.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Container is not refillable.

Waste Disposal Method

Do not puncture throw into fire or incinerate even When empty.

Depose of empty full container a safe place.

Precautions to Be Taken in Handling and Storing

Keep out of reach of children. Do not expose to heat or store at temperature above 110°F.

Keep contents at temperature above 32° F/0°C before using. Detach container when not in use.

Do not place a hot place or pan over cartridge compartment cover of portable gas cooker.

Other Precautions

N/A

Section VII – Control Measures

Respiratory Protection (Specify Type)

Not usually necessary. Use with adequate ventilation

Ventilation	Local Exhaust ; Yes	Special ; N/A
	Mechanical (General) ; N/A	Other ; N/A
Protective Gloves ; N/A	Eye Protection ; N/A	

Other Protective Clothing or Equipment ; N/A

Work/Hygienic Practices

Normal. Wash hands after use.