

## MATERIAL SAFETY DATA SHEET

Details of the supplier of the safety data sheet.

RM Tools, UAB

Kalvariju st. 143-16

Vilnius, Lithuania

Email: info@rmtools.lt

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND THE COMPANY /UNDERTAKING.

#### 1.1 Product Identifier

Type of gas	Butane
227ml ml tinplate aerosol gas refiller necked container with aerosol valve .	

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended used: Used for refilling Lighters.

Presentation/Packing

- Non refillable receptables, aerosol dispenser.

#### 1.3 Details of the supplier of the safety data sheet

RM Tools, UAB

Kalvariju st. 143-16, Vilnius, Lithuania

## 1.4 *Emergency telephone number*

+3705 216 5246

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 *Classification of the substance or mixture*

*Classification according to Regulation (EC) No 1272/2008*

**GHS02Flam. Gas 1**

**GHS04 Liq. Gas**

H222 Extremely flammable aerosol

H229 Contains gas under pressure; may explode if heated

### 2.2 *Label elements*

*Labeling according to Regulation (EC) No 1272/2008*

#### **Hazard pictograms**



GHS02

**Signal word:** Danger

#### **Hazard statements:**

- a. 1, H222Extremely flammable Aerosol
- b. 2, H229 – Pressurised container: May burst if heated.

## Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources (burners fire, lighters fire, lamp fire). During use avoid open flames, from gas appliances, gas lighters and torches. Never use the refiller if leak appears in the refilling vessel. Only use with top of refiller adjusted vertically on the adaptor of the refilling device. -No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

P102 Keep out of reach of children.

**Additional information:** N/A

## Hazard description:

WHMIS-symbols:

A - Compressed gas



B1 - Flammable gas



NFPA ratings (scale 0 - 4):



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HMIS-ratings (scale 0 - 4):

HEALTH	0	Health = 0
FIRE	4	Fire = 4
REACTIVITY	0	Reactivity = 0

## 2.3 Other Hazards

**Results of PBT and vPvB assessment:**


- PBT: Not applicable.
- vPvB: Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

<b>Dangerous components:</b>			
CAS: 106-97-8	Butane	 Flam. Aerosol, H222	
EINECS: 203-448-7			
Indexnumber:601-004-00-0			

**Additional information:** For the wording of the listed risk phrases refer to section 16.

## SECTION 4: FIRST AID MEASURES

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## 4.1 *Description of first aid measures*

**In case of inhalation:** Supply the person with fresh air; seek immediate medical attention in case the symptoms insist. Continued exposure may result in unconsciousness and/or death.

**In case of skin contact:** Not irritate the skin in most cases. However, long sleeved shirts and long trousers made from natural materials should be worn when handling.

In case of skin contact, immediately flush skin with plenty of cold water for at least 15 minutes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Jewelry and other objects abutting to skin, may be removed where feasible. Get medical attention immediately.

**In case of eye contact:** Remove any contact lenses. Immediately flush eyes thoroughly with water for at least 10 min. Lift the upper and lower eyelids occasionally to allow the liquid to evaporate. Keep the eye protected and consult immediate medical attention.

**In case of swallowing:** Consult immediate medical attention.

### **In case of frostbite:**

Try to warm up the frozen tissues and seek for medical attention.

## 4.2 *Most important symptoms and effects, both acute and delayed*

**Inhalation:** Headaches, dizziness, cough, respiration failure, unconsciousness.

**Skin contact:** Usually it is not skin irritating. Rarely, in case of direct and extensive skin contact, it might cause frostbite.

**Eye contact:** Irritation.

**Swallowing:** Seek for medical attention.

## 4.3 *Indication of any immediate medical attention and special treatment needed*

See par. 4.1 and 4.2.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable extinguishing media:** Water with full jet

### 5.2 Special hazards arising from the substance or mixture

Incomplete combustion creates toxic CO the inhalation of which is particularly hazardous.

It is dangerous to put out a flame if the leak cannot be completely stopped.

### 5.3 Advice for firefighters

As soon as a fire breaks out, evacuate all exposed flammable materials and LPG products.

Thoroughly cool by spraying with water all containers that cannot be evacuated. Do not hose down with a concentrated stream of water.

Protect personnel with fire protective clothing, great quantities of water spray or fireproof wall.

Do not enter enclosed or confined space without proper protective equipment including self-contained breathing apparatus.

**Additional information:** Cool endangered receptacles with water spray. If a cartridge that is connected to an appliance catches fire, do not throw or turn it upside-down, as this can only exacerbate the problem (spilling of liquid gas or container rupture). Never tip a container on fire. Keep people away.

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Try to close the valve, protecting your hands and forearms with a wet cloth. If possible, take the container outside without lying it down.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### *6.1 Personal precautions, protective equipment and emergency procedures*

Make sure of adequate air

Avoid the gas inhalation

Apply the emergency procedures

### *6.2 Environmental precautions*

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

### *6.3 Methods and material for containment and cleaning up*

Avoid contact of the liquefied gas with the skin. Do not stay in the vapour cloud (butane air mixtures) but place you behind the source.

Allow to evaporate. Do not breathe fumes and vapor. Ventilate contaminated area thoroughly. Remove all sources of ignition. Take precautionary measures against static discharge. Test atmosphere for vapors to ensure safe working conditions before other personnel are allowed entering into the area.

Local authorities should be advised if significant spillages cannot be contained.

Observe all relevant local and international regulations.

### *6.4 Reference to other sections*

Refer to Section 7 (HANDLING AND STORAGE).

Refer to Section 8 (EXPOSURE CONTROLS/PERSONAL PROTECTION).

Refer to Section 13 (DISPOSAL CONSIDERATIONS).

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Follow the instructions supplied with the appliance and those indicated on the containers.

Always use in a well-ventilated area to allow for the evacuation of fumes and products of combustion (CO,CO<sub>2</sub>).

Do not smoke.

Use exclusively with suitable appliances (indication on containers). Always use the containers in the upright position. Close appliance after each use.

Odourisation allows a 0.5% gas content in the air to be detected. If the smell of gas is detected, search for the leak with soapy water before using the appliance. Never look for a leak with a naked flame.

Never refill an empty container.

Do not heat containers.

Material can accumulate static charges which may cause an electrical spark.

Containers, even those that have been emptied, can contain explosive vapours.

Do not cut, drill, grind, weld or perform similar operations on or near containers.

Do not pierce or burn even after use.

Do not spray onto a naked flame or any incandescent material.

**Changing the cartridge:**assemble or dismantle cartridge from appliance outdoors only.

#### **Information about fire- and explosion protection:**

Keep ignition sources away.

Do not smoke.

Protect against electrostatic charges.

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## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and well-ventilated area, away from any source of heat or ignition.

Do not expose cartridges to a temperature exceeding 50°C/120°F.

Do not store below floor level (basement or cellar).

Store away from low-level points where vapors can accumulate.

Do not store in a vehicle (heated by direct sunlight).

Avoid contact with strong oxidizing agents and keep away from combustible materials.

Use only electrical equipment adapted (explosion proof) in the danger zones.

In great quantities, the storage may depend on specific regulations.

Store in cool, dry conditions in well-sealed receptacles.

Keep container tightly sealed.

Do not seal cartridge tight in appliance.

Protect from heat and direct sunlight.

## 7.3 Specific end use(s)

For domestic use only with suitable gas appliances

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:			
106-97-8 butane			
Source	Type	Ppm	Mg/m <sup>3</sup>
SG OEL	TWA	800	1,900

**Additional information:** The above-mentioned values are in conformity with the values prevailing during the period of making of this SDS

## 8.2 Exposure controls

### Personal protective equipment

**Head protection:** Use a helmet for the operations of loading/unloading or storage.

**Eye / face protection:** Avoid wearing contact lenses.

Avoid smoking when product is in use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

A. Appearance:	
Form:	Liquefied gas under pressure (in containers) or gaseous at atmospheric pressure
Colour:	Colourless
B. Odour:	Characteristic – Unpleasant Like rotten eggs (mercaptans)
C. Odour threshold:	Not determined
D. pH:	Not determined
E. Melting point/Melting range:	-138,2 °C

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F. Boiling point/Boiling range:	-0,5 °C
G. Flash point:	min. flash temperature -60 °C
H. Evaporation rate:	1L of liquid butane got up to atmospheric pressure generates a volume of vapors about 230 L
I. Flammability (solid, gaseous):	Not determined
I. Ignition temperature:	365 °C
J. Explosion limits:	Lower: 1,5 Vol % Upper: 8,5 Vol %
K. Vapor pressure at 20 °C:	3000 hPa
L. Vapor density:	Not determined
M. Relative density:	Not determined
N. Solubility in / Miscibility with water:	Not miscible or difficult to mix
O. Partition coefficient (n-octanol/water):	Not determined
P. Auto-ignition temperature:	287°C
Q. Decomposition temperature:	Not determined
R. Viscosity:	Not determined
S. Explosion properties:	Product is not explosive. However, formation of explosive air/ vapor mixtures is possible.
T. Oxidising properties:	Not determined

## 9.2 Other information

No further relevant information available

## SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Product stable in normal conditions of use.

### 10.1 Reactivity

No hazardous reaction is expected when handled and stored according to its intended use

### 10.2 Chemical stability

No decomposition if used according to its intended use.

### 10.3 Possibility of hazardous reactions

Explodes or catches fire when exposed to heat or a source of ignition.

Combustion products include nitrogen, carbonic gas and water vapor.

Carbon monoxide (toxic) is released during bad combustion.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials

No further relevant information available

### 10.6 Hazardous decomposition products

Carbon monoxide is released during combustion.

## SECTION 11: TOXICOLOGICAL INFORMATION

**General information:** LPGs are kept in closed containers until their destruction by combustion.

### 11.1 Information on toxicological effects

**Acute toxicity:**

*Skin irritation:* No irritating effect

*Serious eye damage/irritation:* No irritating effect

*Sensitization:* No sensitizing effects known

*Inhalation:* Breathing in highly concentrated vapours could result in drowsiness, intoxication or narcosis and, in extreme cases, coma.

In the event of incomplete combustion, the ensuing release of carbon monoxide can cause dizziness, headaches, loss of muscular mobility and coma.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Aquatic toxicity:** No relevant information available.

### 12.2 Persistence and degradability

No relevant information available.

### 12.3 Bioaccumulative potential

No relevant information available.

### 12.4 Mobility in soil

No relevant information available.

### 12.5 Results of PBT and vPvB assessment

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**PBT:** Not applicable.

**vPvB:** Not applicable.

## 12.6 Other adverse effects

No relevant information available.

**Additional ecological information:** Gas accidentally released into the atmosphere is rapidly diluted and undergoes photochemical decomposition.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Recommendation:

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

As the containers of LPGs always contain flammable vapours, never pierce or burn a cartridge, even when they are empty.

#### Packaging material


Electrolytic tinfoil (cartridges).

## SECTION 14: TRANSPORT INFORMATION

14.1 UN –Number	UN 2037
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14.2. UN proper shipping name	Lighter refills containing flammable gas
14.3 Transport hazard class(es)	
Class	2.1
Classification Code	6F
14.4 Packing group	Gas Refiller
Label(s)	2.1
Special provisions	201 654 658
Limited quantities	0
Excepted quantities	E0
Packing instruction	P002
Special packing instruction	PP84 RR5
Mixed packing provisions	MP9
Transport category	2D
Loading ,unloading and handling	Cv9
Operation	S2
Hazard identification	Not available
14.5 Environmental hazards	
Marine Pollutant	No