# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

## REFILLGAS

Product name: Refillgas disposable cartridge model CG190CAMPING

190gr., 330 ml

Refillgas disposable cartridge model CG190INTERNATIONAL 190gr., 330 ml

Refillgas disposable cartridge model CG190UNIVERSAL

190gr., 330 ml

Supplier:

Refillgas S.r.I. Via Leinì 151 Settimo Torinese (TO) ITALY

In an emergency situation please call +39.011.8005013 for additional information on the product.

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient

CAS-No

EINECS-No Hazard symbol/R-wording

Propane

74-98-6

200-827-9

F+, R12 S2, 9, 16

Isobutane/n-butane

106-97-8

203-448-7

F+, R12 S2, 9, 16

## 3. HAZARD IDENTIFICATION

F+ Extremely flammable

R12 Extremely flammable

S2 Keep out of the reach of children

S9 Keep container in a well-ventilated place

\$16 Keep away from sources of ignition - No smoking

Additional information on listed risk phrases see section 16.



## 4. FIRST AID MEASURES

Inhalation:

Supply fresh air, consult doctor in case of complaints.

Skin contact:

Generally the product does not irritate the skin.

If frostbite occurs, flush with lukewarm water (105-115°F, 41°C)

DO NOT USE HOT WATER, contact doctor.

Eye contact:

Rinse opened eye for several minutes under running water.

Contact doctor if any symptoms remain.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:

CO2, sand, extinguishing powder.

Do not use water.

For safety reasons unsuitable

extinguishing agents: Protective equipment: Water, Water with full jet.

No special measures required.

# 6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:

Wear protective equipment.

Keep unprotected persons away.

Keep ignition sources away.

Measures for environmental protection: No special measures required.

Ensure good ventilation.

Measures for cleaning/collecting:

Do not flush with water or aqueous cleansing

agents.

### 7. HANDLING AND STORAGE

Handling:

Information for safe handling:

Ensure good ventilation/exhaustion at the

workplace.

Open and handle receptacle with care.

Information about fire – and explosion

protection:

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

Pressurised container, protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use. Do not spray onto a naked flame or any

incandescent material.

Storage:

Requirements to be met by storerooms Store in a cool and well-ventilated location.

and receptacles:

Observe official regulations on storing

packaging with pressurised containers.

Information about storage in one

common storage facility:

Not required.

Further information about

Keep receptacle tightly sealed. Store in cool, dry condition.

storage conditions:

Protect from heat and direct sunlight.

Class according to regulation

on flammable liquids:

Void.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about

design of technical facilities:

No further data; see item 7.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>General information</u>

Form:

liquid under pressure, gas at 15,6°C and 1 Bar

Colour:

Colourless

Odour:

Characteristic

Ph

Neutral -0,5°C

Boiling point:

Flash point:

- 74°C

**Ignition temperature:** 

405°C

Self-ignition

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.

Specific gravity at 15,6 °C:

0.584 Kg/m3

Solubility in Miscibility with water:

Not miscible or difficult to mix.

# 10. STABILITY AND REACTIVITY

Thermal decomposition / conditions

to be avoided:

No decomposition if used according to

specifications. Avoid high heating or sudden rapid

decompression.

Dangerous reactions: Dangarous documnosition products No dangerous reactions known. dangerous decomposition products know

11. TOXICOLOGICAL INFORMATION

lightly toxic asphyxiating gas

Acute toxicity Primary irritant effect

In aaseous state:

On the skin: On the eye:

No irritant effect. No irritating effect.

Sensitisation:

No sensitising effects known.

## 12. ECOLOGICAL INFORMATION

General note: Generally not hazardous for water, does not mix.

### 13. DISPOSAL CONSIDERATION

**Recommendation:** Must not be disposed together with household

garbage.

Do not allow product to reach sewage system. Product to be deposited at suitable recycling

place, according to official regulations.

### 14. TRANSPORT INFORMATION

Land transport ADR / RID (car and train )

ADR / RID Class: 2 5F UN-Number: 2037

Packing group: - --Hazard label: 2,1

Description of goods: Not refillable receptacles contain gas under pressure

### Marine transport IMDG

 IMDG Class:
 2,1

 UN-Number:
 2037

 Label:
 2,1

Packing group:

**EMS Number:** 

Marine pollutant:

No

Proper shipping name: Not refillable receptacles contain gas under pressure

UN-Number: 2037 Label: 2,1

Packaging group:

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Proper shipping name: Not refillable receptacles contain gas under pressure

### 15. REGULATORY INFORMATION



Extremely flammable

FLAMMABLE GAS UNDER PRESSURE.

## 16. OTHER INFORMATION

Risks at inhalation: Propane/butane is a gas slightly narcotic and may in highly concentrated form irritate mucous membranes and cause suffocation. The suffocation effect is proportional to the decrease of the partial pressure of the oxygen in the inhalation air obtained at a mixture of propane/butane and air.

When the oxygen content has decreased to three fourths or less of the normal content

asphyxia occurs.

The body interprets this as a lack of oxygen and reacts (at concentrations of 50 vol.-% propane/butane in air) with pronounced symptoms of suffocation in the form of difficulty to breath and hyperventilation simultaneously with deteriorated reaction ability and impaired muscle co-ordination.

More serious cases (at concentrations of 75 vol.-% propane/butane in air) may end in unconsciousness and death.

Risks at contact: Propane/butane in liquefied or gaseous form may cause serious frostbites on skin or eyes. If propane/butane in liquefied form gets into contact with objects of a higher temperature than the liquid itself it results in fierce boiling and splashing.

Risks of fire and explosion:

Propane/butane is a highly inflammable gas. Mixtures of air with a content of 3,35 - 23,8 weight-% propane/butane (2,0 - 10,2 vol.-%)

are

explosive. Propane/butane is heavier than air and falls to the ground.