

	MATERIAL SAFETY DATA SHEET	Revision: 1.0
	BALKANGAS Type C200	Date: 18/03/2016

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

Product name:	Balkan Gas disposable cartridge, 190g,
Supplier:	Balkan Gasovi Dooel
Address:	P.O 1484, Bogdanci 131 Marshal Tito Macedonia
Telephone number:	+389 34 223 600 (office hours 08:00 to 15 :00)
E-mail:	balkangasovi@yahoo.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

2.1.1 According to Regulation (EG) No. 1272/2008 (CLP)

a) Physical and chemical properties

Combustible gas	Flam. gas. 1, H220, GHS02, (Dgr)
Gas under pressure:	Liquefied gas, H280, GHS04, (Dgr)

2.1.2 According to Council Directive 67/548/EWG (DSD)

a) Physical and chemical properties:	Extremely flammable liquid, F +; R12
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2.2 Label elements

2.2.1 According to Regulation (EG) No.1272/2008



Danger indications:

GHS02



GHS04

Signal Words:

Standard phrases to hazards (H-phrases)

Handling procedures (P-phrases)

Danger (Delta)

H220; H280

P102; P210; P377; P381; P410 + P403

2.2.2 According to Council Directive 67/548/EWG Directive



Danger indication:

F +

Specific hazard (R-phrases)

R12

Advice on safe handling (S-phrases)

S2; S9; S16; S33

Note:

Full version of the applied standard H statements, P-phrases, R-phrases and S-phrases refer to heading 16.

2.3 Other hazards

2.3.1 Information about PBT

According to the criteria in the Annex XIII of Regulation No.1907/2006, the product does not contain any PBT or vPvB substances.

2.3.2 Other dangerous effects

LPG is heavier than the air in gaseous form and can concentrate on lying down positions. It forms an explosive mixture with the air. The LPG vapors may have narcotic effects at higher concentrations after a certain time. It causes headaches, upset stomach, eye and respiratory irritation. The product may accumulate static electricity.

When it is discharged into a space with the atmospheric pressure, it evaporates by boiling at temperatures up to -45 °C, so it threatens in case of contact of the liquefied gas with the formation of the skin chilblains.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	EINECS-no	CAS-no	Content (% VSV)	Reg.-Nummer
Hydrocarbons C3-C4 Petroleum gas	270-681-9	68476-40-4	90	01-2119486557-22-XXXX

Butane-Propane mix : mixture of butane, butane and propane (approx. 90 %)

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 occur, flush with lukewarm (20-30°C) water. DO NOT USE HOT WATER. Contact doctor.
Eye contact:	Rinse opened eye for 15 minutes under running luke warm (20-30°C) water. Contact doctor if any symptoms remain.
Ingestion:	If symptoms persist consult doctor.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents:	CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents:	Water, water with fully jet.
Protective equipment:	No special measures required.

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6. ACCIDENTAL RELEASE MEASURES

Person related safety precautions:	Wear protective equipment. Keep unprotected persons away. Keep ignition sources away.
Measurements for environmental protection:	No special measures required.
Measures for cleaning/collecting:	Ensure good ventilation. Do not flush with water or aqueous cleansing agents.

7. HANDLING AND STORAGE

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. Pressurized 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.
Requirements to be met by storerooms and receptacles:	Store in a cool and well-ventilated location. Observe official regulations on storing packaging with pressurized container.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep receptacle tightly sealed. Store in cool, dry condition. 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.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquefied gas.	Self ignition point:	405°C
Colour:	Colourless.	Gas density:	Heavier than air.
Odour:	Naturally odourless, after odorization a strong, unpleasant characteristic smell.	Upper explosion risk limit::	Approx. 9.5% (V/V).
Boiling point:	Approx. -1°C	Lower explosion risk limit:	Approx. 1.8% (V/V).
Melting point:	Approx. -138°C	Solubility in water/grease:	Insoluble
Flash point:	Approx. -60°C		

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Risks at inhalation: 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: 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.

12. ECOLOGICAL INFORMATION

General note: Generally not hazardous for water.

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13. DISPOSICAL CONSIDERATIONS

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Product to be deposited at suitable recirculation place, according to official regulations.

EWC code: 16 05 05. Gases in pressure containers other than those mentioned in 16 05 04.

14. TRANSPORT INFORMATION

Land transport ADR / RID (Car and Train)

Class: 2

UN-Number: 2037

Classification code: 5F

Label: 2.1

Description of goods: RECEPTACLES,SMALL,CONTAINING GAS (GAS CARTRIDGES)

Marin transport IMDG

Class: 2

UN-Number: 2037

Marine pollutant: No

Proper shipping name: RECEPTACLES,SMALL,CONTAINING GAS (GAS CARTRIDGES)

Air transport ICAO / IATA

Class: 2

UN-Number: 2037

Label: 2.1

Proper shipping name: RECEPTACLES,SMALL,CONTAINING GAS (GAS CARTRIDGES)

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15. REGULATORY INFORMATION

Labelling conform EC – directive 67/548/CEE and 1999/45/CE admissible until 01-06-2015

Symbol:



F+ Extremely flammable

Classification:	Extremely flammable
Symbols:	F+
Risk phrases:	R12 – Extremely flammable
Safety phrases:	S2 – Keep out of reach of children. S3/9 – Keep container in a well-ventilated place. S16 – Keep away from sources of ignition - No smoking. S33 – Danger of cumulative effects.

FLAMMABLE GAS UNDER PRESSURE

Protect from direct sunlight. Do not expose to temperatures exceeding 50°C (120°F). Keep out of reach of children. Follow strictly the instructions for use supplied with the appliance. **WARNING: DO NOT REFILL.** Do not puncture/pierce or incinerate even after use. Changing the cartridge: assemble or dismantle cartridge from appliance outdoors only, free from ignition sources. Close the appliance valve. Remove the appliance from the cartridge. Replace the connection seal if it is damaged or lost. Avoid cross threading. Screw the down hand tight only. Store in cool dry place. Discard in a safe place. This cartridge complies with EN 417.

16. OTHER INFORMATION

This information gives the health, safety and environmental aspects of the product based on current knowledge. The information given above is based on our current knowledge of this product. The purpose of this information is to describe the product in the light of the requirements imposed with regard to health, safety and the environment in accordance with 67/548/EEG, 1999/45/EG and 76/769/EEG.