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MATERIAL SAFETY DATA SHEET

Revision: 1.0

SIEVERT AB

POWERGAS 220383, 220483

Date: 05/11/2012

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

Product identifier:	Sievert Powergas disposable cartridge 2203, 175g, 300ml – 2204,336g, 600ml	
Relevant identified uses: Professional, heating, shining and cooling for do it yourself purpose.		
Supplier:	Sievert AB	
Address:	P.O Box 1366, Hemvärnsgatan 22 SE-171 26 Solna Sweden +46 8 629 22 00 (office hours 08:00 to 16:30)	
Emergency telephone number:	112 (Sweden)	
E-mail:	info@sievert.se	

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

: Extremely flammable gas (H220)

Classification according to Directive 67/548 ECC or EC 1999/45

: F+; 12

Label elements

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



Signal Words: Danger

Hazard statements: H 220 : Extremely flammable gas

Precautionary statements:

- General: P 102: Keep out of the reach for children

- Prevention: P 210: Keep away from heat/sparks/open flames/hot surfaces - No smoking

- Storage: P 403: Store in a well ventilated place.

Labeling according to Directive 67/548 ECC or EC 1999/45



R-Phrases : R12 Extremely flammable

S-Phrases : S2 Keep out of the reach for children

: S9 Keep container in a well-ventilated place.

: S16 Keep away from sources of ignition - No smoking

Gas cartridge - do not expose to temperatures exceeding 50°C, protect from direct sunlight. Assemble or dismantle cartridge from appliance outdoors only, free from ignition sources. Gas cartridge - store in a cool dry place.

Large gas leak in non-ventilated areas could cause lack of oxygen.

Other hazards : None

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	EC-no	CAS-no	Weight %	Classification
Butane	203-448-7	106-97-8	65%	H 220 / F+, R12
Propane	200-827-9	74-98-6	35%	H 220 / F+, R12

4. FIR	ST-AID	MEAS	URES
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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

Extinguishing media	
Suitable extinguishing	CO2, sand, extinguishing powder. Do not use water.
agents:	
Unsuitable extinguishing	Water, water with fully jet.
agents:	
Hazardous combustion	Creates explosive mixture with air.
products:	
Advice for firefighters:	No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear protective equipment. Keep unprotected persons away. Keep ignition sources		
	away.		
Environmental precautions:	No special measures required.		
Methods and material for	Ensure good ventilation. Do not flush with water or aqueous cleansing agents.		
containment and cleaning up:			

7. HANDLING AND STORAGE

Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Keep ignition sources away – Do not smoke.		
and explosion protection:	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.	

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8. EXPOSURE CONTROLS

Appropriate engineering controls:

No further data, see item 7.

Personal protection

Make sure that it is well ventilation. Do not smoke during handling.

Environmental exposure

No further data, see item 7.

controls:

equipment:

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquefied gas	Danger of explosion:	Product does not present an explosion hazard.
Colour:	Colourless	Explosion limit:	1,5 – 10,9 vol %
Odour:	Characteristics	Vapor pressure at 20°C:	4,01 bar
Boiling point:	-44°C.	Density at 20°C:	0,550 Kg/m3
Flash point:	<0°C	Solubility in water/grease:	Not miscible or difficult to mix.
Ignition temperature:	365°C	Organic solvents:	100%

Self ignition: Product is not self-igniting.

10. STABILITY AND REACTIVITY

Possibility of hazardous

reactions:

No dangerous reactions known.

Conditions to be avoided:

No decomposition if used according to specifications.

Hazardous decomposition

products:

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

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.

12. ECOLOGICAL INFORMATION

Ecological information

General note: Generally not hazardous for water.

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

UN-Number: 1950

ADR, IMDG, IATA labeling



Land transport ADR / RID (Car and Train)			
Class:	2		
Classification code:	5F		
Label:	2.1		
Description of goods:	1950 AEROSOLS flammable, LQ		
Marin transport IMDG	Marin transport IMDG		
Class:	2		
Marine pollutant:	No		
Proper shipping name:	1950 AEROSOLS flammable, LQ		
Air transport ICAO / IATA			
Class:	2		
Label:	2.1		
Proper shipping name:	1950 AEROSOLS flammable, LQ		

15. REGULATORY INFORMATION

Safety health and environmental regulations/legislation specific for the substance or mixture:

Make sure that all national and local regulations are followed.

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, 76/769/EEG and 1272/2008 (CLP)

End of document

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