SIEVERT® SIEVERT AB	MATERIAL SAFETY DATA SHEET	Revision: 1.0
	POWERGAS 221093	Date: 15/11/2012

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

Product identifier:	Sievert Powergas disposable cartridge 2210, 190g, 330ml
Relevant identified uses:	Heating and shining 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** **P 243: Take precautionary measures against static discharge**
- 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**
	: S33	**Take precautionary measures against static discharges.**

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**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	EC-no	CAS-no	Weight %	Classification
Butane	203-448-7	106-97-8	100	H220 / F+, R12

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

Extinguishing media	
Suitable extinguishing agents:	CO2, sand, extinguishing powder. Do not use water.
Unsuitable extinguishing agents:	Water, water with fully jet.
Hazardous combustion products:	Creates explosive mixture with air.
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 containment and cleaning up:	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

Appropriate engineering controls:	No further data, see item 7.
Personal protection equipment:	Make sure that it is well ventilation. Do not smoke during handling.
Environmental exposure controls:	No further data, see item 7.

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

Possibility of hazardous reactions:	No decomposition if used according to specifications.
Conditions to be avoided:	No dangerous reactions known.
Hazardous decomposition products:	No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

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

Ecological information

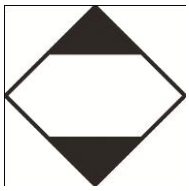
General note:	Generally not hazardous for water.

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:	2037
ADR, IMDG, IATA labeling	
Land transport ADR / RID (Car and Train)	
Class:	2
Classification code:	5F
Label:	2.1
Description of goods:	RECEPTACLES,SMALL,CONTAINING GAS (GAS CARTRIDGES)
Marin transport IMDG	
Class:	2
Marine pollutant:	No
Proper shipping name:	RECEPTACLES,SMALL,CONTAINING GAS (GAS CARTRIDGES)
Air transport ICAO / IATA	
Class:	2
Label:	2.1
Proper shipping name:	RECEPTACLES,SMALL,CONTAINING GAS (GAS CARTRIDGES)

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).

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