

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

Product name: Sievert Ultragas disposable cartridge 2205, 210g, 300ml
Supplier: Sievert AB, Box 1366, 171 26 Solna, Sweden
Telephone: Call +46 8 629 22 00 at office hours for additional information
E-mail: info@sievert.se

2. HAZARD IDENTIFICATION



F+ Extremely flammable

R12 Extremely flammable
 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.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S33 Take precautionary measures against static discharges
 R11 High flammable
 R36 Irritating to eyes
 R66 Repeated exposure may cause skin dryness or cracking
 R67 Vapor may cause drowsiness and dizziness
 Xi Irritated

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS-no	EINECS-No	Content	Hazard symbol/R-wording
Butane	106-97-8	203-448-7	57,1%	F+, R12
Propene	115-07-01	204-062-1	26,7%	F+, R12
Propane	74-98-6	200-827-9	11,4%	F+, R12
Acetone	67-64-1	200-662-2	4,8%	F+, R11

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.

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	
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. 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.
STORAGE	
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.

9. PHYSICAL AND CHEMICAL PROPERTIES	
General information	
Form:	Gas
Colour:	Colourless
Odour:	Characteristics
Boiling point:	-44°C
Flash point:	<0°C
Ignition temperature:	365°C
Self ignition:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits	
Lower:	1,5 Vol %
Upper:	10,9 Vol %
Vapor pressure at 20°C:	5,4 bar
Density at 20°C:	0,550 Kg/m ³
Solubility in miscibility with water:	Not miscible or difficult to mix.
Solvent contents	
Organic solvents:	100%
Risk of fire and explosion:	Propane/butane is a highly inflammable gas.(2-10,2 vol.-%) are explosive. Mixtures of air with a content of 3,35 - 23,8 weight-% propane/butane Propane/butane is heavier than air and falls to the ground.

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:	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	
General note:	Generally not hazardous for water.

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)
 ADR/RID Class: 2 5F
 UN-Number: 1950
 Packing group: -
 Hazard label: 2,1
 Description of goods: 1950 AEROSOLS flammable

Marine transport IMDG
 IMDG Class: 2,1
 UN-Number: 1950
 Label: 2,1
 Packing group: -
 EMS Number
 Marine pollutant: No
 Proper shipping name: AEROSOLS flammable

Air transport ICAO / IATA
 ICAO / IATA Class: 2,1
 UN-Number: 1950
 Label: 2,1
 Packing group: -
 Proper shipping name: AEROSOLS flammable

15. REGULATORY INFORMATION

Marking and hazardous symbol:



F+ Extremely flammable

Risk phrases:

R12 Extremely flammable

Safety phrases:

S2 Keep out of reach of children.

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

FLAMMABLE GAS UNDER PRESSURE

Protect from direct sunlight. Do not expose to temperatures exceeding 50°C (120°F)

Keep out of reach of children. For use with Sievert appliance only. 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
No other information.