

SAFETY DATA SHEET

BUTANGAS REFILL 2201 189630106

Last changed: 02/07/2012

Internal No: 189630106

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name / designation BUTANGAS REFILL 2201 189630106

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet

NATIONAL MANUFACTURER/IMPORTER

Enterprise SIEVERT AB
Address BOX 1366
Postal code 171 26 SOLNA
Country Sverige
Telephone +46 8 629 2211

2 Hazards identification

2.1 Classification of the substance or mixture

DPD Classification: F+; R12

CLP Classification: Flam. Gas 1H220

Most important HSE hazard effects: Extremely flammable gas.

2.2 Label elements



Signal word: None

EC-Label: No

COMPOSITION

Butan (95 - 100 %), PROPAN (0 - 5 %), 1,3-butadiene, buta-1,3-diene (< 0,1 %), ethanethiol, ethyl mercaptan (< 0,01 %)

H Statements

H220 Extremely flammable gas.

P Statements

P102 Keep out of reach of children.
P403 Store in a well-ventilated place.
P210 Not translated to English

2.3 Other hazards

OTHER HAZARDS

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

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3 Composition/information on ingredients

3.2 Mixtures

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Butan		203-448-7	106-97-8	95 - 100 %	F+,R12	Flam. Gas 1 H220
PROPAN			74-98-6	0 - 5 %	F+,R12	Flam. Gas 1 H220
1,3-butadiene, buta-1,3-diene		203-450-8	106-99-0	< 0,1 %	T,F+,Carc. Cat. 1,Muta. Cat. 2,R12 - R45 - R46	Flam. Gas 1 H220 Press. Gas comp. gas Muta. 1B H340 Carc. 1A H350
ethanethiol, ethyl mercaptan		200-837-3	75-08-1	< 0,01 %	Xn,F,N,R11 - R20 - R50/53	Flam. Liq. 2 H225 Acute Tox. 4 H332 Aquatic Chronic 1 H410

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

4 First aid measures

4.1 Description of first aid measures

INHALATION

Fresh air. Get medical attention if any discomfort continues.

INGESTION

Consult a doctor if symptoms should occur.

SKIN CONTACT

In the event of frostbite, rinse immediately with lukewarm water until blood circulation is restored (colour is restored). Contact physician.

EYE CONTACT

Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

5 Fire-fighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA:

Extinguishing agent: carbon dioxide, powder or sand.

UNSUITABLE EXTINGUISHING MEDIA

Do not use water.

5.2 Special hazards arising from the substance or mixture

5.3 Advice for fire-fighters

6 Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

PERSONAL PRECAUTIONS

Use personal protective equipment. Evacuate and air the premises. Eliminate all sources of ignition.

6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up

METHODS AND MATERIAL

Use only in well-ventilated areas. Do not rinse with water.

6.4 Reference to other sections

7 Handling and Storage

7.1 Precautions for safe handling

PRECAUTION FOR SAFE HANDLING

Use only in well-ventilated areas. Be careful - risk of heat generation. Always keep away from sources of ignition. No smoking. Take precautionary measures against static discharges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Keep in a dry, cool and well-ventilated place. Protect from direct sunlight.

7.3 Specific end uses

8 Exposure controls / Personal protection

8.1 Control parameters

8.2 Exposure controls

9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

PHYSICAL STATE Gas.

COLOUR Colourless.

ODOUR Odour-free.

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Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	No data		
Freezing point	No data		
Initial boiling point and boiling range	~ 5 °C		
Flash point	No data		
Evaporation rate	No data		
Flammability (solid, gas)	No data		
Flammability limits	> 410 °C		
Explosion limits	1,8 - 9 %		
Vapour pressure	450 kPa	40°C	
Vapour density	~ 1,5 g/cm ³	15°C	
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temprature	No data		
Decomposition temprature	No data		
Viscosity	No data		

9.2 Other safety information

Parameter	Value/unit	Method/reference	Observation
Density	575 kg/m ³	15°C	
Molecular weight	Ca 58		
Odour threshold	>4% i luft		
Specifikt självtryck	0,52(vätska)		
LowPow, uppskattning	2,3		
Volymutvidn. koefficient	0,0020/°C		

Note no.	Comments

10 Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products:

11 Toxicological information

11.1 Toxicological effects

ACUTE TOXICITY - DERMAL

Contains refrigerated gas; may cause cryogenic burns or injury.

ACUTE TOXICITY - INHALATION

May have an anaesthetizing or narcotic effect at high concentrations. At high contents, unconsciousness, and at very high contents, suffocation due to oxygen deficiency. Risk of fatality.

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12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

13 Disposal considerations

13.1 Waste treatment methods

GENERAL REGULATIONS

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Must not be discharged into the sewage system. Dump or destroy in accordance with official recommendations and applicable legislation.

14 Transport information

Classified as Dangerous Goods: Yes

Land transport (ADR/RID)

14.1 UN-No.	1950	14.4 Packing group	
14.2 Proper Shipping Name	Aerosol, flammable	14.5 Environmental hazards	
14.3 Class(es)	2		
Hazard label(s)	2.1		
Hazard ID:		Tunnel restriction code	

Inland water ways transport (ADN)

14.1 UN-No.	1950	14.4 Packing group	
14.2 Proper Shipping Name	Aerosol, flammable	14.5 Environmental hazards	
14.3 Class(es)	2		
Environmentally hazardous in tank-vessels			

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Sea transport (IMDG)

14.1 UN-No.	1950	14.4 Packing group	
14.2 Proper Shipping Name		14.5 Environmental hazards	
14.3 Class(es)	2		
Sub Risk:			
IMDG Code segregation group			
Marine pollutant	No		
EMS:			

Air transport (ICAO-TI / IATA-DGR)

14.1 UN-No.	1950	14.4 Packing group	
14.2 Proper Shipping Name		14.5 Environmental hazards	
14.3 Class(es)	2		
Hazard label(s)			

15 Regulatory information

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

15.2 Chemical Safety Assessment

16 Other information

LIST OF RELEVANT R-PHRASES

R11	Highly flammable.
R12	Extremely flammable.
R20	Harmful by inhalation.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LIST OF RELEVANT H-STATEMENTS

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.