

### SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

### Primus Allround Gas / Cassette Gas

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

### 1.1. Product identifier

 Index-No
 601-004-00-0

 CAS-No.
 106-97-8

 EC-No.
 203-448-7

 Product code
 None.

Synonyms None.

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

**Use of the** Aerosol propellants

Substance/Preparation

### 1.3. Details of the supplier of the safety data sheet

Company/UndertakingPrimus ABIdentificationBox 6041

SE-171 06 SOLNA, Schweden

www.primus.se

Telefon +46-8-564 842 30 Telefax +46-8-564 842 40

info@primus.se

1.4. Emergency telephone

number

+46-8-564 842 30

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Version GHS 1

### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

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

(GHS/CLP)

Flammable aerosols, Cat. 1, H222

Compressed gas, H280

Classification according to EU Directives 67/548/EEC or

1999/45/EC

F+; R12

Additional information

For the full text of the phrases mentioned in this Section, see

Section 16.

2.2. Label elements





Signal Word Danger

**Hazard Statements** H222: Extremely flammable aerosol.

H280: Contains gas under pressure; may explode if heated.

**Precautionary statements** P101: If medical advice is needed, have product container or label

at hand.

P102: Keep out of reach of children.

P210b: Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

P211: Do not spray on an open flame or other ignition source. P251: Pressurized container: Do not pierce or burn, even after use. P410+P412: Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/ 122 °F.

Additional advice None.

**GHS product identifier** Butane, CAS-No. 106-97-8, EC-No. 203-448-7

Odour marker (<100 ppm Thio-compounds)

### Labelling according to Directives 67/548/EEC or 1999/45/EC



F+ - Extremely flammable.

**R-phrase(s)** R12: Extremely flammable.

**S-phrase(s)** S2: Keep out of the reach of children.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

Hazardous component(s) which must be listed on the label

Butane, CAS-No. 106-97-8, EC-No. 203-448-7

**2.3. Other hazards** 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 on a naked flame or any incandescent material.

# 3. Composition/information on ingredients

**Chemical characterization** Extremely flammable liquefied gas.

Components		Product identifier	
Butane	> 99%	CAS-No.: 106-97-8 EC-No.: 203-448-7 Index-No: 601-004-00-0	
Odour marker (<100 ppm Thio-compounds)			

For the full text of the phrases mentioned in this Section, see Section 16.

None known. **Hazardous impurities** 

# 4. First aid measures

#### 4.1. Description of first aid measures

Inhalation Move to fresh air. Consult a physician after significant exposure.

Skin contact Wash with water and soap as a precaution.

Eye contact No special measures required. If eye irritation persists, consult a

specialist.

Ingestion Ingest immediately about 350 ml (5 ml/kg body weight) of activated

charcoal slurry. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and

delayed

None known.

4.3. Indication of any immediate medical attention and special

treatment needed

If ingested, irrigate the stomach using activated charcoal in addition. Control of circulatory system. Oxygen, if needed.

# 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO2, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Solvents may produce excessive pressure under fire-conditions. Sealed containers may rupture and ignite. Cool containers / tanks with water spray. Burning produces irritant fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters

Standard procedure for chemical fires. Wear self contained

breathing apparatus for fire fighting if necessary.

Specific methods Do not use a solid water stream as it may scatter and spread fire.

### 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low

Advice for emergency

responders

Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind. Avoid skin contact

with leaking liquid (danger of frostbite).

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up The product evaporates readily.

6.4. Reference to other sections

See chapter 8 and 13.

# 7. Handling and storage

7.1. Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated

place.

7.3. Specific end use(s) No information available.

# 8. Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limit(s)** No data is available on the product itself. **Butane (CAS 106-97-8)** 

United Kingdom - Workplace 750 ppm STEL
Exposure Limits (WELs) - STELs
United Kingdom - Workplace 600 ppm TWA
Exposure Limits (WELs) - TWAs 1450 mg/m3 TWA

8.2. Exposure controls

Occupational exposure controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In the case of mist, spray or aerosol exposure wear suitable

personal respiratory protection and protective suit. Respirator with

AX filter.

Hand protection Gloves made of latex.

Eye protection Safety glasses.

Skin and body protection In case of full contact: Long sleeved clothing.

**Thermal hazards** Container may rupture on heating.

**Environmental exposure controls** No special measures required.

### 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form Compressed gas.
Colour Colourless.
Odour Rotten egg-like.

Odour Threshold No information available.

pH: n.a.

Melting point/range: -137 °C

Boiling point/range: 0.5 °C

Flash point: extremely flammable

**Evaporation Rate:**No information available.
Flammability:
No information available.

**Explosion limits:** 1,9 - 8,5 %

Vapour pressure: 1520 mm Hg (18°C)

Vapor density: 2.05 (air=1)

**Relative density:** No information available.

Water solubility: partly miscible.

Partition coefficient (n- No information available.

octanol/water):

Autoignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity: No information available.

Combustion/explosion hazards: gas, flammable

Oxidizing properties: None

#### 9.2. Other information

Suitable solvents Soluble in hydrocarbons

**General Product Characteristics** No information available.

# 10. Stability and reactivity

**10.1. Reactivity** Risk of ignition.

**10.2. Chemical stability** No decomposition if used as directed.

10.3. Possibility of hazardous

reactions

Vapours may form explosive mixture with air.

**10.4. Conditions to avoid**Take precautionary measures against static discharges. Keep away

from heat and flame.

**10.5. Incompatible materials** Oxidizing agents.

10.6. Hazardous decomposition

products

None under normal use.

# 11. Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity LC50/inhalation/2h/mouse = 680 mg/l. LC50/inhalation/4h/rat = 658

mg/l.

Butane (CAS 106-97-8)

Inhalation LC50 Rat = 658 mg/L 4 h (IUCLID)

**Skin corrosion/irritation**Not irritating when applied to human skin.

Serious eye damage/eye

irritation

No eye irritation.

Respiratory / Skin Sensitisation None.

**Carcinogenicity** Not classifiable as a human carcinogen.

Germ cell mutagenicity No data available.

Reproductive toxicity No data available.

Specific target organ toxicity

(single exposure)

No data available.

Specific target organ toxicity

(repeated exposure)

No data available.

**Aspiration hazard** No aspiration toxicity classification.

affect human health, as follows: Cough...

# 12. Ecological information

**12.1. Toxicity** LC50/96h/fish > 1000 mg/l.

12.2. Persistence and

degradability

No data is available on the product itself.

**12.3. Bioaccumulative potential** No information available.

**12.4. Mobility in soil** The product evaporates readily. Not expected to adsorb on soil.

12.5. Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating

nor toxic (PBT).

**12.6. Other adverse effects**No information available.

# 13. Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues / unused products

Do not put residues of product into household waste. It should be given in the original package to the official waste disposal

authorities. 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 on naked flame or any incandescent material. European Waste catalogue code (EWC-code): 16 05 04 -

gefährliche Stoffe enthaltende Gase in Druckbehältern

(einschliesslich Halonen).

**Contaminated packaging** Offer rinsed packaging material to local recycling facilities.

# 14. Transport information

ADR/RID Proper shipping name AEROSOLS

UN No 1950. Class 2.

ADR/RID-Labels 2.1. Classification code 5F.

Risk No. 23.

Limited quantity 1 L. Tunnel code D

IMO Proper shipping name Aerosols

UN No 1950. Class 2.

Packing group -. ADR/RID-Labels 2.1.

Limited quantity Siehe SV277.

EmS F-D, S-U. Marine Pollutant no

**ICAO** Proper shipping name Aerosols, flammable

UN No 1950. Class 2.1.

Packing instruction (passenger aircraft): 203 (75 kg).

Packing instruction (LQ): Y203 (30 kg G). Packing instruction (cargo aircraft): 203 (150 kg).

**Further Information** None.

# 15. Regulatory information

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

**Regulatory Information** The product is classified and labelled in accordance with Directive

1999/45/EC.

The product is classified and labelled according to Regulation (EC)

No. 1272/2008 (GHS/CLP).

Butane (CAS 106-97-8)

EU - REACH (1907/2006) - List of

Registered Intermediates

EU - REACH (1907/2006) - List of

Registered Substances

UN (United Nations) - Selected Volatile Substances Prone to

Abuse

Present

Present

Present

15.2. Chemical safety

assessment

Not required.

### 16. Other information

Key or legend to abbreviations

and acronyms

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

(GHS/CLP)

DSD/DPD: Classification according to EU Directives 67/548/EEC or

1999/45/EC

Classification procedure Classification according to Regulation (EU) 1272/2008 with the

correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP).

Full text of phrases referred to

under sections 2 and 3

H220: Extremely flammable gas. H222: Extremely flammable aerosol.

H280: Contains gas under pressure; may explode if heated.

R12: Extremely flammable.

**Training advice** Provide adequate information, instruction and training for operators.

**Further information** Contains odour marker: 100 ppm mixture of tert-Butyl mercaptane

(CAS 75-66-1) and ethyl methanesulphonate (CAS 62-50-0).

Instructions for use 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 on naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep away from

children.

**Disclaimer** The information provided in this Safety Data Sheet is correct to the

best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality

specification.