

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**Hobbygas Art.-Nr.: 3050 und 3060**

Print date: 16.09.2016

Product code: WG42011

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Hobbygas Art.-Nr.: 3050 und 3060

Product group: Fertigware

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Flammable gases

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

Company name: Gebr.Gloor AG

Street: Kirchbergstrasse

Place: CH-3400 Burgdorf

Telephone: +41 (0) 34 427 47 47

Telefax: +41 (0) 34 423 15 46

Responsible Department: E-Mail-Adresse der Sachkundigen Person: [sdb@aerosol-service.com](mailto:sdb@aerosol-service.com)**1.4. Emergency telephone**

24 h Notfallnummer (National): 145

**number:**

International: +41 44 251 51 51

**Further Information**

Notfallinformationsdienste / öffentliche Beratungsstelle:

Schweizerisches Toxikologisches Informationszentrum (STIZ, Tox-Zentrum)

CH-8030 Zürich

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable gas: Flam. Gas 1

Hazard Statements:

Extremely flammable gas.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

H220 Extremely flammable gas.

**Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 Eliminate all ignition sources if safe to do so.

P403 Store in a well-ventilated place.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

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### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
75-28-5	isobutane			50-100%
	200-857-2			
	Flam. Gas 1, Liquefied gas; H220 H280			
106-97-8	butane			0-50%
	203-448-7			
	Flam. Gas 1, Liquefied gas; H220 H280			
74-98-6	propane			5-50%
	200-827-9			
	Flam. Gas 1, Liquefied gas; H220 H280			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

If unconscious place in recovery position and seek medical advice. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

### 4.2. Most important symptoms and effects, both acute and delayed

Dizziness Nausea Unconsciousness Cardiac arrhythmias

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation.

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

**6.3. Methods and material for containment and cleaning up**

Ventilate affected area.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

Siehe Abschnitt 13 sowie Abschnitt 8 persönliche Schutzausrüstung in Abschnitt 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

siehe "Hinweise zum Brand- und Explosionsschutz"

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

**Further information on handling**

n.a.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on storage compatibility**

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

**Further information on storage conditions**

n.a.

**7.3. Specific end use(s)**

Zur Zeit liegen keine Informationen vor.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

### Additional advice on limit values

n.a.

### 8.2. Exposure controls



### Appropriate engineering controls

n.a.

### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

### Eye/face protection

Wear eye/face protection.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

n.a.

## SECTION 9: Physical and chemical properties

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

Physical state: liquefied gas  
 Colour: colourless  
 Odour: characteristic

pH-Value: not determined

### Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: not determined

Flash point: not applicable

### Flammability

Solid: not applicable

Gas: not determined

### Test method

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Lower explosion limits:	1,5 vol. %
Upper explosion limits:	9,4 vol. %
Ignition temperature:	365 °C
<b>Auto-ignition temperature</b>	400-460°C
Solid:	not applicable
Gas:	not determined
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidizing.	
Vapour pressure:	not determined
Density:	not determined
Water solubility:	insoluble
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
<b><u>9.2. Other information</u></b>	
Solid content:	not determined

n.a.

## SECTION 10: Stability and reactivity

### **10.1. Reactivity**

Flammable, Ignition hazard. Nicht zu erwarten

### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

Keine gefährlichen Reaktionen bekannt.

### **10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

### **10.5. Incompatible materials**

No information available.

### **10.6. Hazardous decomposition products**

Keine Zersetzung bei Bestimmungsgemässer Verwendung.

### **Further information**

Zur Zeit liegen keine weiteren Informationen vor.

## SECTION 11: Toxicological information

### **11.1. Information on toxicological effects**

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### Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
106-97-8	butane			
	inhalative (4 h) gas	LC50 273000 ppm	Rat	GESTIS

### Additional information on tests

This mixture is classified as hazardous according to 1999/45/EC.

### Practical experience

#### Observations relevant to classification

Zur Zeit liegen keine weiteren Informationen vor.

#### Other observations

Zur Zeit liegen keine weiteren Informationen vor.

### Further information

Zur Zeit liegen keine weiteren Informationen vor.

## SECTION 12: Ecological information

### 12.1. Toxicity

Aquatic toxicity: No information available.

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	2,8
106-97-8	butane	2,89
74-98-6	propane	2,36

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Gemäss der Rezeptur keine AOX enthalten

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Recycle according to official regulations.

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#### SECTION 14: Transport information

##### Land transport (ADR/RID)

**14.1. UN number:** UN 1965  
**14.2. UN proper shipping name:** HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.  
**14.3. Transport hazard class(es):** 2  
 Hazard label: 2.1



Classification code: 2F  
 Special Provisions: 274 583 652 660  
 Limited quantity: 0  
 Transport category: 2  
 Hazard No: 23  
 Tunnel restriction code: B/D

##### Other applicable information (land transport)

E0

##### Inland waterways transport (ADN)

**14.1. UN number:** UN 1965  
**14.2. UN proper shipping name:** HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.  
**14.3. Transport hazard class(es):** 2  
 Hazard label: 2.1



Classification code: 2F  
 Special Provisions: 274 583 660  
 Limited quantity: 0

##### Other applicable information (inland waterways transport)

E0

##### Marine transport (IMDG)

**14.1. UN number:** UN 1965  
**14.2. UN proper shipping name:** HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
 Hazard label: 2.1



Special Provisions: 274  
 Limited quantity: 0  
 EmS: F-D, S-U

##### Other applicable information (marine transport)

E0

##### Air transport (ICAO)

**14.1. UN number:** UN 1965

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**14.2. UN proper shipping name:** HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. (Isobutane, Butane)

**14.3. Transport hazard class(es):** 2.1

Hazard label: 2.1



Special Provisions: A1  
Limited quantity Passenger: Forbidden

IATA-packing instructions - Passenger: Forbidden

IATA-max. quantity - Passenger: Forbidden

IATA-packing instructions - Cargo: 200

IATA-max. quantity - Cargo: 150 kg

**Other applicable information (air transport)**

E0

Passenger-LQ: Forbidden

**14.6. Special precautions for user**

Warning: Flammable gases.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

### SECTION 15: Regulatory information

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

**EU regulatory information**

2004/42/EC (VOC): 99.6 %

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

n.a.: nicht anwendbar

AOX: Adsorbierbare organisch gebundene Halogene

**Relevant H and EUH statements (number and full text)**

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.



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**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*