

# Safety Data Sheet

according to 2001/58/EC

## Gas cartridge for PYROSIL

Print date : 20.02.2006

Product code : BO5209495

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

#### 1.1 Identification of the substance or preparation

Gas cartridge for PYROSIL

#### 1.2 Company/undertaking identification

Company name : : BOHLE AG  
Street : : Dieselstr. 10  
Place : : D-42781 Haan  
Contact person : : Uwe Adler Telephone : : 02129 5568-0  
e-mail : : uadler@bohle.de Telefax : : 02129 5568 282  
Inquiry office : : Produktmanagement

### 2. Composition/information on ingredients

Chemical characterization ( preparation )

#### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-448-7	106-97-8	butane	60-70 %	F+ R12
200-827-9	74-98-6	propane	30-40 %	F+ R12

Full text of each relevant R phrase can be found in heading 16.

### 3. Hazards identification

#### Classification

Symbols : Extremely flammable  
R-phrases :  
Extremely flammable.

### 4. First aid measures

#### General information

Move to fresh air. Artificial respiration and/or oxygen may be necessary.

#### After inhalation

Move to fresh air.

#### After contact with skin

Wash off with warm water and soap. Wash frost-bitten areas with plenty of water. Do not remove clothing.

#### After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

#### After ingestion

Immediately give large quantities of water to drink. Do not induce vomiting. Consult a physician if necessary.

### 5. Fire-fighting measures

#### Suitable extinguishing media

dry chemical carbon dioxide (CO<sub>2</sub>)

#### Extinguishing media which must not be used for safety reasons

high volume water jet

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**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Additional information**

Use water spray to cool unopened containers.

**6. Accidental release measures****Personal precautions**

Evacuate personnel to safe areas. Use personal protective equipment. Remove all sources of ignition.

**7. Handling and storage****7.1 Handling****Advice on safe handling**

When using, do not eat, drink or smoke.

**Advice on protection against fire and explosion**

Do not smoke. Keep away from heat and sources of ignition. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharges.

**Further information on handling**

Keep away from direct sunlight. Also after use, do not open with force or burn.

**7.2 Storage****Requirements for storage rooms and vessels**

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

**8. Exposure controls/personal protection****8.1 Exposure limit values****Exposure limits (EH40)**

CAS No.	Substance	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
74-98-6	Propane (OLD)				TWA (8 h)	OES
					STEL (15 min)	OES

**8.2 Exposure controls****Occupational exposure controls**

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

**Protective and hygiene measures**

Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs.

**Respiratory protection**

No personal respiratory protective equipment normally required.

**Hand protection**

leather gloves

**Eye protection**

tightly fitting safety goggles

**Skin protection**

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Wear suitable protective equipment.

**9. Physical and chemical properties****9.1 General information**

Physical state : : compressed liquefied gas  
 Colour : : colourless  
 Odour : : characteristic

**9.2 Important health, safety and environmental information**

Test method

**Changes in the physical state**

Flash point : :	-40 °C
Lower explosion limits : :	1,8 vol. %
Upper explosion limits : :	8,8 vol. %
Vapour pressure : at (20 °C)	4100 hPa
Density (at 15 °C) :	0,55 g/cm <sup>3</sup>
Water solubility :	immiscible

**9.3 Other information**

Ignition temperature : : 410/550 °C

**10. Stability and reactivity****Conditions to avoid**

No decomposition if stored and applied as directed.

**Materials to avoid**

oxidizing agents

**Hazardous decomposition products**

Carbon monoxide

**11. Toxicological information****Acute toxicity**

None known.

**Additional information on tests**

Health injuries are not known or expected under normal use. Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation. Rapid evaporation of the liquid may cause frostbite.

**12. Ecological information****Ecotoxicity**

This product has no known eco-toxicological effects. Ecological injuries are not known or expected under normal use.

**13. Disposal considerations****Waste disposal number of waste from residues/unused products :**

160505 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers other than those mentioned in 16 05 04

**14. Transport information****Land transport (ADR/RID)**

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ADR/RID class : : 2  
Warnings plate  
UN number : : 1950  
Hazard label : : 2.1

### Description of the goods

DRUCKGASPACKUNGEN, entzündbar

## 15. Regulatory information

### 15.1 Labelling

Indication of danger : : F+ - Extremely flammable



F+ - Extremely flammable

#### R phrases :

12 Extremely flammable.

#### S phrases :

03 Keep in a cool place.  
09 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
33 Take precautionary measures against static discharges.  
35 This material and its container must be disposed of in a safe way.  
51 Use only in well-ventilated areas.

#### Special labelling for certain preparations

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. Keep away from sources of ignition — No smoking. Keep out of the reach of children.

### 15.2 National regulations

## 16. Other information

#### List of relevant R phrases

12 Extremely flammable.

#### Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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