

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

### Identification of the substance or preparation

#### Trade name

**Braun AutoClean Shaver Cleaning Cartridge**

#### Use of the substance/preparation

Cleaner

### Company/undertaking identification

#### Address

Procter & Gamble GmbH  
Sulzbacher Str. 40  
65823 Schwalbach am Taunus

Telephone no. +49 (0)6196 / 89 01

Fax no. +49 (0)6196 / 89 49 29

#### Information provided by / telephone

Procter & Gamble GmbH, Tel: +49 (0) 6173 / 30 3255

#### Emergency telephone

Giftnotruf Berlin + 49 (0)30 30686 790 (Service in German and English)

#### Advice on Safety Data Sheet

sdb\_info@umco.de

## 2.) Hazards identification

### Classification

F; R11 Highly flammable

### Hazard symbols

F Highly flammable

### R phrases

11 Highly flammable.

## 3.) Composition / information on ingredients

### Hazardous ingredients

#### ethanol

EC no.	200-578-6	Index no.	603-002-00-5	CAS no.	64-17-5
Concentration	> 85	<	95	%-b.w.	
Classification	F; R11				
Hazard symbols	F	R phrases	11		

#### n-propanol, propan-1-ol

EC no.	200-746-9	Index no.	603-003-00-0	CAS no.	71-23-8
Concentration	> 1	<	10	%-b.w.	
Classification	F; R11-Xi; R41-R67				
Hazard symbols	F, Xi	R phrases	11-41-67		

### Other information

Used alcohols are denatured.

## 4.) First aid measures

### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes

immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

**After skin contact**

Wash off immediately with soap and water. Don't use solvents.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.).

**After ingestion**

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

**5.) Fire-fighting measures****Suitable extinguishing media**

Alcohol-resistant foam; extinguishing powder; Water spray jet; Carbon dioxide

**Extinguishing media that must not be used for safety reasons**

Full water jet

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Fire gas of organic material has to be classed invariably as respiratory poison. Formation of explosive mixtures with air is possible.

**Special protective equipment for fire-fighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing.

**Other information**

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

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

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**Methods for cleaning up/taking up**

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

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

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking

tools.

## Storage

### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

### Advice on storage assembly

Do not store together with:

### Further information on storage conditions

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

## 8.) Exposure controls / personal protection

### Exposure limit values

#### ethanol

CAS no. 64-17-5  
EC no. 200-578-6

#### List of approved workplace exposure limits (WELs) / EH40

Ethanol  
TWA 1920 mg/m<sup>3</sup> 1000 ml/m<sup>3</sup>

#### n-propanol, propan-1-ol

CAS no. 71-23-8  
EC no. 200-746-9

#### List of approved workplace exposure limits (WELs) / EH40

Propan-1-ol  
TWA 500 mg/m<sup>3</sup> 200 ml/m<sup>3</sup>  
STEL 625 mg/m<sup>3</sup> 250 ml/m<sup>3</sup>  
Skin resorption / sensitisation Sk

### Exposure controls

#### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	In case of longer-term contact:		
Appropriate Material	viton		
Material thickness	> 0,6	mm	
Breakthrough time	> 480	min.	
Appropriate Material	In case of short-term contact / splash protection:		
Appropriate Material	nitrile		

#### Eye protection

Safety glasses with side protection shield (EN 166)

# EC safety data sheet

**P&G BRAUN**

Trade name: Braun AutoClean Shaver Cleaning Cartridge

Status: 11.02.2010

Product no.: 0 998 305

Version: 3.1.0 / GB

## Skin protection

Clothing as usual in the chemical industry.

## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Have eye wash fountain available. Have emergency shower available.

## 9.) Physical and chemical properties

### General information

Form	liquid
Colour	colourless
Odour	alkohol-like; mild

### Important health, safety and environmental information

#### Changes in physical state

Type	Boiling point	
Value	78	°C

#### Flash point

Value	13	°C
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#### Ignition temperature

Value	425	°C
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#### Self ignition

Value	None	
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#### Explosion limits

Upper explosion limit	15	% vol
Reference substance	Ethanol	
Lower explosion limit	3,5	% vol
Reference substance	Ethanol	

#### Vapour pressure

Value	59	mbar
Reference temperature	20	°C
Value	280	mbar
Reference temperature	50	°C

#### Density

Value	0,805	g/cm <sup>3</sup>
Reference temperature	20	°C

#### Viscosity

Type	kinematic	
Value	1,25	cSt
Reference temperature	40	°C

#### Solubility in water

Remarks	Completely miscible
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#### Solvent content

Value	99	%
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## 10.) Stability and reactivity

### Conditions to avoid

None, if handled according to order.

### Materials to avoid

None known.

**Hazardous decomposition products**

No hazardous decomposition products known.

**11.) Toxicological information****Acute toxicity****Acute oral toxicity**

Remarks No data available.

**Acute dermal toxicity**

Remarks No data available.

**Acute inhalational toxicity**

Remarks No data available.

**Sensitisation**

Remarks No data available.

**Effects after repeated or prolonged exposition (subacute, subchronic, chronic)****Mutagenicity**

Remarks No data available.

**Reproduction toxicity**

Remarks No data available.

**Carcinogenicity**

Remarks No data available.

**Experience in practice**

Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.

**12.) Ecological information****Ecotoxicity****Fish toxicity**

Remarks No data available.

**Daphnia toxicity**

Remarks No data available.

**Algae toxicity**

Remarks No data available.

**Bacteria toxicity**

Remarks No data available.

**Other information**

The product should not be allowed to enter drains or water courses. Do not discharge into surface waters/groundwater.

**13.) Disposal considerations****Product**

Waste code 140603 Other solvents and solvent mixtures

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Notice for consumers: Used cleaning cartridges shall be closed and may be disposed off in normal household waste.

**14.) Transport information****Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	1170
Technical name	ETHANOL (ETHYL ALCOHOL)
Tunnel restriction code	D/E
Label	3

**Transport IMDG**

Class	3
Packing group	II
UN number	1170
Proper shipping name	ETHANOL
EmS	F-E+S-D
Label	3

**Transport ICAO/IATA**

Class	3
Packing group	II
UN number	1170
Proper shipping name	Ethanol (Ethyl alcohol)
Label	3

**15.) Regulatory information****Labelling in accordance with EC directives**

The product is classified and labelled in accordance with EC directives.

**Hazard symbols**

F	Highly flammable
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**R phrases**

11	Highly flammable.
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**S phrases**

2	Keep out of the reach of children.
7	Keep container tightly closed.
16	Keep away from sources of ignition --- No smoking.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**16.) Other information****Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC as amended in each case.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

# EC safety data sheet

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## Relevant R-phrases (chapter 3):

- 11 Highly flammable.
- 41 Risk of serious damage to eyes.
- 67 Vapours may cause drowsiness and dizziness.

## Department issuing safety data sheet

UMCO Umwelt Consult GmbH  
Georg-Wilhelm-Str. 183 b, D-21107 Hamburg  
Tel.: +49 40 / 41 92 13 00 Fax: +49 40 / 41 92 13 57 e-mail: umco@umco.de

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

## Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.