

# Safety Data Sheet according to 91/155/EEC

B. Braun Melsungen AG

Revision date : 12.05.2006

Revision no. : 1,00

## SOFTALIND PURE

00047-0231

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

#### 1.1 Identification of the substance or preparation

SOFTALIND PURE

#### **Use of the substance/preparation**

Alcoholic hand rub

#### 1.2 Company/undertaking identification

B. Braun Melsungen AG

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Inquiry office

Zentralbereich Zentrale Logistik, Tel.: ++49 (0) 5661-714523

Emergency telephone :++49 (0) 6132 / 84463 GBK Gefahrgut Buero GmbH, Ingelheim

### 2. Composition/information on ingredients

#### **Chemical characterization** ( preparation )

Alcoholic, aqueous solution

#### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-578-6	64-17-5	Ethanol	< 55 %	F R11
200-746-9	71-23-8	Propan-1-ol	< 25 %	F, Xi R11-41-67

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

### 3. Hazards identification

#### **Classification**

Symbols : Irritant

R-phrases :

Flammable.

Risk of serious damage to eyes.

Vapours may cause drowsiness and dizziness.

### 4. First aid measures

#### **General information**

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

#### **After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

#### **After contact with eyes**

Rinse thoroughly with plenty of water, also under the eyelids.

If eye irritation persists, consult a specialist.

#### **After ingestion**

Drink plenty of water.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

Attention. Beware, danger of aspiration.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

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

Full water jet

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

Fire may produce:

Carbon monoxide and carbon dioxide.

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

**Additional information**

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

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**6. Accidental release measures**

**Personal precautions**

In case of vapour formation use respirator.

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.

**Methods for cleaning up/taking up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**Additional information**

Use only explosion-proof equipment.

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**7. Handling and storage**

**7.1 Handling**

**Advice on safe handling**

Ensure adequate ventilation.

When using, do not eat, drink or smoke.

Avoid contact with eyes.

**Advice on protection against fire and explosion**

Keep product and empty container away from heat and sources of ignition.

Do not smoke - volatile.

Take precautionary measures against static discharges.

**7.2 Storage**

**Requirements for storage rooms and vessels**

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

Pay attention to anti-explosion rules.

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**Advice on storage compatibility**

Incompatible with:

Oxidizing agents

Alkaline metals and earth alkaline metals.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**Storageclass (VCI)**

3 A

**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
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
	Ethanol	-	-		STEL (15 min)	WEL
71-23-8	Propan-1-ol	200	500		TWA (8 h)	WEL
	Propan-1-ol	250	625		STEL (15 min)	WEL

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

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.

When using, do not eat, drink or smoke.

Avoid contact with the eyes.

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

No personal respiratory protective equipment normally required.

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

**Eye protection**

Eye wash bottle with pure water.

Safety goggles with side protection

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

Physical state	Liquid
Colour	Colourless
Odour	Alcoholic

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

Test method

**Changes in the physical state**

Boiling point 84 °C

Flash point 21 °C

**Flammability**

Lower explosion limits 2,1 vol. % \*)

Upper explosion limits \*)

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Ignition temperature	360 °C	*)
Vapour pressure :	59 hPa	**)
at (20 °C)		
Density (at 20 °C) :	0,86 g/cm <sup>3</sup>	
Water solubility :	Miscible	
at (20 °C)		

#### Solvent content

< 75 %

\*) Propan-1-ol

\*\*\*) Ethanol

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## 10. Stability and reactivity

#### Conditions to avoid

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

#### Materials to avoid

Oxidizing agents.

Alkaline metals and alkaline earth metals

#### Hazardous decomposition products

Carbon monoxide and carbon dioxide.

#### Additional information

No decomposition if stored and applied as directed.

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## 11. Toxicological information

#### Empirical data on effects on humans

Vapours may cause drowsiness and dizziness.

Risk of strong eye injuries.

#### Further information

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Swallowing renders reabsorption possible.

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

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## 12. Ecological information

#### Additional information

Ecological injuries are not known or expected under normal use.

Do not flush into surface water or sanitary sewer system.

Slightly water hazardous.

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

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## 13. Disposal considerations

#### Advice on disposal

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Where possible recycling is preferred to disposal.

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**Waste disposal number of waste from residues/unused products**

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

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

ADR/RID class	3
Hazard-no.	33
UN number	1987
Hazard label	3
ADR/RID packing group	II

**Description of the goods**

ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol)

**Remarks (land transport)**

LQ 4: combination packaging: 3 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

**Inland waterways transport****Marine transport**

IMDG code	3
UN number	1987
Marine pollutant	No
EmS	F-E; S-D
IMDG packing group	II
Hazard label	3

**Description of the goods**

ALCOHOLS, N.O.S. (ethanol and propan-1-ol)

**Remarks (marine transport)**

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass)

**Air transport**

ICAO/IATA-DGR	3	
UN/ID number	1987	
Hazard label	3	
IATA-packing instructions - Passenger		305
IATA-max. quantity - Passenger		5 L
IATA-packing instructions - Cargo		307
IATA-max. quantity - Cargo		60 L
ICAO packing group	II	

**Description of the goods**

ALCOHOLS, N.O.S. (ethanol and propan-1-ol, solution)

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### **15. Regulatory information**

#### **15.1 Labelling**

Indication of danger Xi - Irritant

Labelling according to EC-guidelines The product is classified and labelled in accordance with EC directives.

#### **R phrases**

- 10 Flammable.
- 41 Risk of serious damage to eyes.
- 67 Vapours may cause drowsiness and dizziness.

#### **S phrases**

- 07 Keep container tightly closed.
- 16 Keep away from sources of ignition - No smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 35 This material and its container must be disposed of in a safe way.
- 39 Wear eye/face protection.

#### **Additional information on EC regulations**

Applies for those countries where this product is classified as medicinal product or cosmetic; as ready for use medicinal product or cosmetic, this product is not subject to labelling obligation according to the CE directives in these countries.

#### **15.2 National regulations**

Water contaminating class 1 - slightly water contaminating  
1999/13/EC (VOC) < 75 %

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### **16. Other information**

#### **List of relevant R phrases**

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

#### **Other data**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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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.)*