

**Safety Data Sheet** according to Regulation (EC) No 1907/2006

B. Braun Melsungen AG

Revision date: 07.05.2012

Revision No: 1,00

**Braunoderm coloured / uncoloured**

00056-0006

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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Braunoderm coloured / uncoloured

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

#### **Use of the substance/mixture**

Skin disinfectant

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

B. Braun Melsungen AG

Carl-Braun-Straße 1

D-34212 Melsungen

B. Braun Medical AG

Seesatz 17

CH-6204 Sempach

### **Responsible Department**

Zentrale Service-Bereiche/Logistik und Supply Chain

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Responsible for the safety data sheet: sds@gbk-ingelheim.de

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## **SECTION 2: Hazards identification**

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

Indications of danger: Irritant

R phrases:

Flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

#### **GHS classification**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

### **2.2. Label elements**

Danger symbols:

Xi - Irritant



Xi - Irritant

### **Hazardous components which must be listed on the label**

Propan-2-ol

### **R phrases**

10 Flammable.

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- 36 Irritating 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.

**Special labelling of certain mixtures**

Contains Potassium iodide. May produce an allergic reaction.

**2.2. Label elements (GHS classification)**

**Signal word:**

Danger

**Pictograms:**

GHS02-GHS07



**Hazardous components which must be listed on the label**

Propan-2-ol

**Hazard statements**

- H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 Do not breathe vapour.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Special labelling of certain mixtures**

EUH208 Contains Potassium iodide. May produce an allergic reaction.

**Additional advice on labelling**

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

**2.3. Other hazards**

Vapours may form explosive mixture with air.

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

**3.2. Mixtures**

**Chemical characterization**

Alcoholic, aqueous solution

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
200-661-7	Propan-2-ol	50 - 55 %
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
01-2119455582-50		
	Polyvidone-iodine	< 3 %
25655-41-8	Xi - Irritant, N - Dangerous for the environment R38-41-51-53	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411	
231-659-4	Potassium iodide	< 1 %
7681-11-0	Xi - Irritant R36/37-43	
	Eye Irrit. 2, STOT SE 3, Skin Sens. 1; H319 H335 H317	

Full text of R and H phrases: see Section 16.

**SECTION 4: First aid measures**

**4.1. Description of 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.

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

May cause drowsiness or dizziness.  
Causes serious eye irritation.

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

Treat symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

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

Full water jet.

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

Fire may produce:  
Iodine compounds.  
Carbon monoxide and carbon dioxide.

### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

Protective suit.

### **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.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## **SECTION 6: Accidental release measures**

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

In case of vapour formation use respirator.

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Keep away sources of ignition.

### **6.2. Environmental precautions**

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

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

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

Shovel into suitable container for disposal.

### **6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe 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. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

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

Pay attention to anti-explosion rules.

#### **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.

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

Skin disinfectant

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## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		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.

**SECTION 9: Physical and chemical properties**

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

Physical state: Liquid  
 Colour: Brown / Orange - brown  
 Odour: Alcoholic

**Test method**

pH-Value (at 20 °C): 3,7

**Changes in the physical state**

Boiling point: 83 °C \*)  
 Flash point: 21 - 22 °C  
 Lower explosion limits: 2,0 vol. % \*)  
 Upper explosion limits: \*)  
 Ignition temperature: 425 °C \*)  
 Vapour pressure: 43 hPa \*)  
 (at 20 °C)  
 Density (at 20 °C): 0,91 g/cm<sup>3</sup>  
 Water solubility: Miscible  
 (at 20 °C)  
 Solvent content: 50 %

**9.2. Other information**

\*) Propan-2-ol

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

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

Reactions with oxidizing agents.

Reactions with alkali metals.

Reactions with earth alkali metals.

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

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

### **10.5. Incompatible materials**

oxidizing agents

Alkaline metals and alkaline earth metals.

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

Iodine compounds.

Carbon monoxide and carbon dioxide.

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## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

No toxicological data available.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	h
67-63-0	Propan-2-ol				
	Acute oral toxicity	LD50	5050 mg/kg	Rat	
	Acute dermal toxicity	LD50	12800 mg/kg	Rabbit	

#### **Irritation and corrosivity**

Skin irritation: Not classified.

Eye irritation: Irritant

#### **Sensitising effects**

Not classified.

#### **Severe effects after repeated or prolonged exposure**

STOT/Single exposure: Category 3 [May cause drowsiness or dizziness.]

STOT/Repeated exposure: Not classified.

Aspiration hazard: Not classified.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Teratogenicity: Not classified.

#### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

#### **Empirical data on effects on humans**

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance. Swallowing renders reabsorption possible.

#### **Further information**

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

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## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Ecological data are not available.

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CAS No	Chemical name			
	Aquatic toxicity	Method	Dose	Species
67-63-0	Propan-2-ol			
	Acute fish toxicity	LC50	> 1000 mg/l	96
	Acute crustacea toxicity	EC50	> 1000 mg/l	48

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

Low hazard to waters.

Damage to fish and plankton is possible.

**Further information**

Ecological injuries are not known or expected under normal use.

Do not flush into surface water or sanitary sewer system.

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

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****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.

**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.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

UN1219

**14.2. UN proper shipping name:**

ISOPROPANOL, SOLUTION

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

3

**14.4. Packing group:**

II

Hazard label:

3



Classification code:

F1

Limited quantity:

1 L / 30 kg

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Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN1219  
**14.2. UN proper shipping name:** ISOPROPANOL, SOLUTION  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Limited quantity: 1 L / 30 kg

**Marine transport (IMDG)**

**14.1. UN number:** UN1219  
**14.2. UN proper shipping name:** ISOPROPANOL, SOLUTION  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Limited quantity: 1 L / 30 kg  
EmS: F-E, S-D

**Air transport (ICAO)**

**UN/ID number:** UN1219  
**14.2. UN proper shipping name:** ISOPROPANOL, SOLUTION  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Limited quantity Passenger: Y341 / 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

Dangerous for the environment: no

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

The transport takes place only in approved and appropriate packaging.

**SECTION 15: Regulatory information**



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

**EU regulatory information**

1999/13/EC (VOC): 50 %

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

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**SECTION 16: Other information**

**Full text of R phrases referred to under Sections 2 and 3**

- 10 Flammable.
- 11 Highly flammable.
- 36 Irritating to eyes.
- 36/37 Irritating to eyes and respiratory system.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

**Full text of H statements referred to under Sections 2 and 3**

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

**Further Information**

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.)*