

## Safety data-sheet (91/155 EEC)

Printed 25.02.2003  
Revision 25.02.2003 (GB) Version 1.1

**HELIPUR**  
10047HE0013

### 1. Identification of the substance/preparation

**Name of product** HELIPUR  
**Manufacturer/distributor** B. Braun Melsungen AG  
Carl-Braun-Straße 1, D-34212 Melsungen  
**Advice** Zentralbereich Zentrale Logistik  
Phone ++49 5661-714523  
**Recommended use(s)**  
Desinfectant for instruments.

### 2. Composition/information on ingredients

#### Chemical characterization

Alkaline solution of sodium salt from phenolic derivates

#### Hazardous ingredients

CAS-No.	EC-No.	Name	[%]	Classification
000059-50-7	200-431-6	4-chloro-3-methylphenol	8,5	Xn R21/22; Xi R41; R43; N R50
000067-63-0	200-661-7	propan-2-ol	< 15	F R11; Xi R36; R67
000090-43-7	201-993-5	biphenyl-2-ol	4	Xi R36/37/38; N R50
000120-32-1	204-385-8	2-benzyl-4-chlorophenol	4,8	Xi R41; N R50/53
001310-73-2	215-185-5	sodium hydroxide	< 1	C R35
068188-18-1	269-144-1	alkylsulfonate sodium salt	< 15 - 30	Xi R36/38

### 3. Special hazards information for man and environment

#### R-phrases

10 Flammable.  
21/22 Harmful in contact with skin and if swallowed.  
38 Irritating to skin.  
41 Risk of serious damage to eyes.  
43 May cause sensitisation by skin contact.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. First aid measures

#### General information

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

#### In case of inhalation

Move to fresh air in case of accidental inhalation of vapours.  
In the event of symptoms refer for medical treatment.

#### In case of skin contact

Wash off with soap and plenty of water.  
Consult a doctor if skin irritation persists.

#### In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Consult a physician.  
Seek medical treatment by eye specialist.

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### In case of ingestion

Do not provoke vomiting. Consult physician. Attention in case of vomiting - acute danger of suffocating, produced by foaming ingredients. Rinse mouth. Make drink some glasses of water. The decision whether to provoke vomiting is to be taken by a physician

### Physician's information / possible symptoms

Attention! Phenols in high amounts cause local anesthetic effects so that pain due to burns may be delayed.

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## 5. Fire-fighting measures

### Suitable extinguishing material

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

### Extinguishing material that may not be used for safety reasons

Full water jet

### Special exposure hazards arising from the substance, combustible products or resulting gases

Fire may produce:

Carbon monoxide, carbon dioxide, sulfur oxides, nitrogen oxides (NOX), hydrochloric acid gas and phosphorus pentoxide.

Chlorine compounds

### Special protective equipment for firefighters

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.

Ensure adequate ventilation.

Use personal protective clothing.

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.

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## 7. Handling and storage

### Advice on safe handling

Ensure adequate ventilation.

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

When using, do not eat, drink or smoke.

### Advice on protection against fire and explosion

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

Do not smoke.

### Requirements for storage rooms and vessels

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

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### Advice on storage compatibility

Incompatible with acids.

### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

## 8. Exposure controls / personal protection

### Additional advice on system design

Ensure adequate ventilation, especially in confined areas.

### Ingredients with occupational exposure limits to be monitored

CAS-No.	Name	Code	[mg/m <sup>3</sup> ]	[ml/m <sup>3</sup> ]	Remark
000067-63-0	propan-2-ol	TLV	999	400	
001310-73-2	sodium hydroxide	TLV	2		Short Term Exposure

### Respiratory protection

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

### Hand protection

Gloves made off nitrile (i. e. "Manufix free", B. Braun Melsungen AG)  
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

### Eye protection

Eye wash bottle with pure water  
safety goggles with side protection

### Skin protection

Long sleeved clothing.

### General protective measures

Do not inhale vapours.  
Wash hands before breaks and immediately after handling the product.  
When using, do not eat, drink or smoke.  
Take off immediately all contaminated clothing.  
Avoid contact with skin, eyes and clothing.

## 9. Physical and chemical properties

<b>Form</b> liquid	<b>Colour</b> red	<b>Odour</b> alcoholic
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### Data relevant for safety

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	11,1				
<b>Flash point</b>	32 °C				
<b>Combustion temperature</b>	425 °C				
<b>Lower explosion limit</b>	2 Vol-%				

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	Value	Temperature	at	Method	Remark
<b>Density</b>	1,09 g/ml	20 °C			
<b>Solubility in water</b>		20 °C			miscible
<b>Solvent concentration</b>	< 15 %				

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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

acids

#### Hazardous decomposition products

Carbon monoxide, carbon dioxide, sulfur oxides, nitrogen oxides (NOX), hydrochloric acid gas and phosphorus pentoxide.  
Chlorine compounds

#### Additional information

No decomposition if stored and applied as directed.

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### 11. Toxicological information

#### Experiences made from practice

Irritating to skin.  
Harmful in contact with skin and if swallowed  
Sensitization through skin contact possible.  
Risk of strong eye injuries.

#### Additional information

Inhalation of vapours in high concentration can cause narcotic effects.  
risk of dangerous resorption through skin.  
Watch out! Beware, hazard of foam aspiration!

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### 12. Ecological information

#### General regulation

Ecological injuries are not known or expected under normal use.  
hazard to waters  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Product is not allowed to be discharged into aquatic environment.

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### 13. Disposal considerations

#### Waste code No.

07 06 99

#### Name of waste

wastes not otherwise specified

#### Recommendations for the product

Where possible recycling is preferred to disposal.  
Can be incinerated, when in compliance with local regulations.

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### Recommendations for 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.

### Recommended cleansing agent

water

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## 14. Transport information

### Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)

**Identification** 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(sodium hydroxide and isopropanol)  
**UN-No.** 2924  
**Class** 3  
**PG** III  
**Hazard No.** 38  
**Remarks**  
LQ 7: combination packaging: 5 l / 45 l; trays: 5 l / 20 l (20 kg total gross mass)

### Marine transport IMDG/GGV See

**Proper shipping name** FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(sodium hydroxide and isopropanol)  
**UN-No.** 2924  
**Class** 3  
**PG** III  
**Marine pollutant** No  
**EmS-No.** F-E; S-C  
**Remarks**  
Limited quantities (section 18): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass)

### Air transport ICAO/IATA

**Proper shipping name** FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(sodium hydroxide and isopropanol, solution)  
**UN/ID-No.** 2924  
**Class** 3  
**PG** III  
**Remarks**  
PAC 309 (5 L), CAC 310 (60 L)

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## 15. Regulatory information

### Remarks for classification

According to EC-regulations the product is to be labelled as follows:

### Classification

**Xn** Harmful  
**N** Dangerous for the environment

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### R-phrases

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41 Risk of serious damage to eyes.  
43 May cause sensitisation by skin contact.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrases

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.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### Hazardous ingredients for labeling

4-chloro-3-methylphenol

### Special labelling for certain preparations

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### VOC standard

VOC content <15 %

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## 16. Other information

### 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)

### Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

R 11 Highly flammable.

R 21/22 Harmful in contact with skin and if swallowed.

R 35 Causes severe burns.

R 36 Irritating to eyes.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 36/38 Irritating to eyes and skin.

R 41 Risk of serious damage to eyes.

R 43 May cause sensitisation by skin contact.

R 50 Very toxic to aquatic organisms.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.