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

1.1. Product identifier

Helipur

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

Use of the substance/mixture

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 Telephone: +49 (0) 5661 / 71-4422 Emergency telephone :+49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim) Responsible for the safety data sheet: sds@gbk-ingelheim.de

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Harmful, Dangerous for the environment R phrases: Flammable. Harmful in contact with skin and if swallowed. Irritating to skin. Risk of serious damage to eyes. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification

Hazard categories: Flammable liquid: Flam. Liq. 3 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Dam. 1 Respiratory/skin sensitization: Skin Sens. 1 Hazard Statements: Flammable liquid and vapour. Harmful if swallowed or in contact with skin. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Danger symbols:

Xn - Harmful; N - Dangerous for the environment





Xn - Harmful

N - Dangerous for the environment

Hazardous components which must be listed on the label

4-Chloro-3-methylphenol

R phrases

it pin aboo	
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.
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.

2.2. Label elements (GHS classification)

Signal word:	Danger
Pictograms:	GHS02-GHS05-GHS07-GHS09
Hazardous compor 4-Chloro-3-methylpl	nents which must be listed on the label henol
Hazard statements	
H226	Flammable liquid and vapour.
H302+H312	Harmful if swallowed or in contact with skin.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary state	ements
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 co

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. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P312 Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Alkaline concentrate with sodium salts from phenolic derivates

Hazardous components

EC No	Chemical name	Quantity	
CAS No	Classification		
Index No	GHS classification		
REACH No			
269-144-1	Alkylsulfonate sodium salt	15 - 30 %	
68188-18-1	Xi - Irritant R36/38		
	Eye Irrit. 2, Skin Irrit. 2; H319 H315		
200-661-7	Propan-2-ol	< 15 %	
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		
200-431-6	4-Chloro-3-methylphenol	8,5 %	
59-50-7	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R21/22-41-43-50		
604-014-00-3	Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H312 H302 H318 H317 H400		
204-385-8	2-Benzyl-4-chlorophenol 4,8		
120-32-1	C - Corrosive, N - Dangerous for the environment R34-50-53		
	Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H314 H400 H410		
201-993-5	Biphenyl-2-ol	4 %	
90-43-7	Xi - Irritant, N - Dangerous for the environment R36/37/38-50		
604-020-00-6	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Aquatic Acute 1; H319 H335 H315 H400		
500-223-8	Sodium laurylether sulfate 1 - 5		
68585-34-2	Xi - Irritant R36/38		
	Eye Irrit. 2, Skin Irrit. 2; H319 H315		
215-185-5	Sodium hydroxide <1		
1310-73-2	C - Corrosive R35		
011-002-00-6	Skin Corr. 1A; H314		

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. In the event of persistent symptoms receive medical treatment.

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 skin

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

After contact with eyes

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

After 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

Safety Data Sheet according to Regulation (EC) No 1907/2006 B. Braun Melsungen AG Revision date: 05.07.2012 Revision No: 1,00 Helipur 00056-0013

taken by a physician.

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

Causes skin irritation. Harmful in contact with skin and if swallowed. May cause an allergic skin reaction. Causes serious eye damage.

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

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

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

Chlorine compounds.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator. Ensure adequate ventilation.

Use personal protective clothing.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

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.

Advice on storage compatibility

Incompatible with acids.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Disinfectant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	WEL
		-	2		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.

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.

Respiratory protection

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

Hand protection

Protective gloves resistant to chemicals made of nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove < Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

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

Safety goggles with side protection.

Eye wash bottle with pure water.

Skin protection

Long sleeved clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Red
Odour:	Alcoholic

	Test method
pH-Value (at 20 °C):	Approx. 11
Changes in the physical state	
Flash point:	32 °C
Lower explosion limits: Upper explosion limits:	2 vol. %
Ignition temperature:	425 °C
Density (at 20 °C):	1,09 g/cm³
Water solubility: (at 20 °C)	Miscible
Solvent content:	< 15 %

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 acids.

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

Acids.

10.6. Hazardous decomposition products

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

Chlorine compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No toxicological data available. Harmful in contact with skin and if swallowed.

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	
59-50-7	4-Chloro-3-methylphenol			
	Acute oral toxicity	ATE 500 mg/kg		
	Acute dermal toxicity	ATE 1100 mg/kg		

Irritation and corrosivity

Skin irritation: Irritant Eye irritation: Causes serious eye damage. Sensitising effects May cause an allergic skin reaction.

Severe effects after repeated or prolonged exposure

STOT - Single exposure: Not classified. STOT - Repeated exposure: Not classified. Aspiration hazard: Not classified.

Carcinogenic/mutagenic/toxic effects for reproduction

Carcinogenicity: Not classified. Mutagenicity: Not classified. Reproductive toxicity: 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

Inhalation of vapours in high concentration can cause narcotic effects.

Risk of dangerous resorption through skin.

Watch out. Beware, hazard of foam aspiration.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available. Toxic to aquatic life with long lasting effects.

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	Species	h
67-63-0	Propan-2-ol				
	Acute fish toxicity	LC50	> 1000 mg/l		96
	Acute crustacea toxicity	EC50	> 1000 mg/l		48
1310-73-2	Sodium hydroxide				
	Acute fish toxicity	LC50	45,4 mg/l	Onchorhynchus mykiss	96

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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

Hazardous water pollutant.

Further information

Ecological injuries are not known or expected under normal use. Product is not allowed to be discharged into aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

070604

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

Waste disposal number of waste from residues/unused products

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.

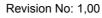
Contaminated packaging

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)

<u>14.1. UN number:</u>	UN2924
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Sodium hydroxide)
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3+8
Classification code:	FC
Limited quantity:	5 L / 30 kg
Transport category:	3
Hazard No:	38
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN2924
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Sodium hydroxide)
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3+8



00000 0010	
	3 8
Classification code:	FC
Limited quantity:	5 L / 30 kg
Marine transport (IMDG)	
14.1. UN number:	2924
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Sodium hydroxide)
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	III
Hazard label:	3+8
Marine pollutant:	No
Limited quantity: EmS:	5 L / 30 kg F-E; S-C
Air transport (ICAO)	I-L, 0-0
UN/ID number:	UN2924
<u>14.2. UN proper shipping name:</u>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Propan-2-ol, Sodium
14.2. ON proper empping name.	hydroxide, Solution)
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3+8
	3
Limited quantity Passenger:	Y342 / 1 L
IATA-packing instructions - Passenger:	354
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	5 L 365
IATA-max. quantity - Cargo:	60 L
14.5. Environmental hazards	
Dangerous for the environment:	yes
14.6. Special precautions for user	
Handle in accordance with good industrial h	volene and safety practice
14.7. Transport in bulk according to Annex	
The transport takes place only in approved a	
SECTION 15: Regulatory information	
	ulations/legislation specific for the substance or mixture
EU regulatory information	
1999/13/EC (VOC):	< 15 %
Additional information	

Additional information

Regulation (EC) No 648/2004 (Regulation on detergents): Anionic surfactants > 30 %, Phosphonates < 5 %, Parfum < 5 % Ingredients subject to the labelling obligation according to SCCP: Benzyl Salicylate, Coumarin, Eugenol, Linalool National regulatory information Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Water contaminating class (D): 2 - water contaminating 15.2. Chemical safety assessment For this substance a chemical safety assessment has not been carried out. **SECTION 16: Other information** Full text of R phrases referred to under Sections 2 and 3 Flammable. 10 Highly flammable. 11 21/22 Harmful in contact with skin and if swallowed. 34 Causes burns. 35 Causes severe burns. 36 Irritating to eyes. 36/37/38 Irritating to eyes, respiratory system and skin. 36/38 Irritating to eyes and skin. 38 Irritating to skin. 41 Risk of serious damage to eyes. 43 May cause sensitisation by skin contact. 50 Very toxic to aquatic organisms. 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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 Highly flammable liquid and vapour. H225 Flammable liquid and vapour. H226 Harmful if swallowed. H302 H302+H312 Harmful if swallowed or in contact with skin. Harmful in contact with skin. H312 Causes severe skin burns and eye damage. H314 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. May cause respiratory irritation. H335 May cause drowsiness or dizziness. H336 H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. 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)

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

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