

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

HELVEMED SA

Revision date : 01.02.2008

Revision no. : 1,00

**INSTRUMENT FORTE**

00838-0005

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

**Identification of the substance or preparation**

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**Use of the substance/preparation**

Instrument disinfectant

**Company/undertaking identification**

HELVEMED SA

Route des Jeunes 19

CH-1227 Genf

**Inquiry office**

Customer Service

Tel.: ++41 (0) 22-718 75 00

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

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**2. Hazards identification**

**Classification**

Indications of danger : Corrosive

R-phrases :

Flammable.

Harmful if swallowed.

Causes severe burns.

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**3. Composition/information on ingredients**

**Chemical characterization** ( preparation )

Aqueous surfactants solution

**Hazardous components**

| EC-No.    | CAS-No.   | Chemical name           | Quantity  | Classification     |
|-----------|-----------|-------------------------|-----------|--------------------|
| 226-902-6 | 5538-95-4 | Non-ionic surfactants   | 15 - 30 % | Xn, Xi R22-36/38   |
| 200-746-9 | 71-23-8   | Laurylpropylene diamine | 20 %      | C, Xn, N R22-35-50 |
|           |           | Propan-1-ol             | 5 - 15 %  | F, Xi R11-41-67    |

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

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**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 skin**

Wash off immediately with soap and plenty of water.

Treat subsequently with skin cream.

Consult a physician.

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**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Summon a doctor immediately.

**After ingestion**

Do not induce vomiting.  
Drink plenty of water.  
Summon a doctor immediately.  
Induce vomiting only upon the advice of a physician.

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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 arising from substance or preparation itself, combustion products, resulting gases**

Fire may produce:  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.  
Protective suit

**Additional information**

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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**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 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**

**Handling**

**Advice on safe handling**

Keep container tightly closed.  
Use only in thoroughly ventilated areas.  
Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

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Keep away from open flames, hot surfaces and sources of ignition.  
Vapour/air mixture is explosive, even in empty uncleaned receptacles.  
Do not smoke.

**Storage****Requirements for storage rooms and vessels**

Keep containers tightly closed in a dry, well-ventilated place.

**Advice on storage compatibility**

Incompatible with strong acids and oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**Storageclass (VCI)**

3 A

**8. Exposure controls/personal protection****Exposure limit values****Exposure limits (EH40)**

| CAS-No. | Chemical name | ml/m <sup>3</sup> | mg/m <sup>3</sup> | F/ml | Category      | Origin |
|---------|---------------|-------------------|-------------------|------|---------------|--------|
| 71-23-8 | Propan-1-ol   | 200               | 500               |      | TWA (8 h)     | WEL    |
|         | Propan-1-ol   | 250               | 625               |      | STEL (15 min) | WEL    |

**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.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

**Respiratory protection**

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

**Hand protection**

Protective gloves resistant to chemicals made off 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](http://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**

Tightly fitting goggles

Eye wash bottle with pure water.

**Skin protection**

Long sleeved clothing.

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**9. Physical and chemical properties**

**General information**

Physical state                      Liquid  
Colour                                Blue green  
Odour                                 Characteristic

**Important health, safety and environmental information**

|                                      |                        | Test method |
|--------------------------------------|------------------------|-------------|
| pH-Value :                           | approx. 10             |             |
| <b>Changes in the physical state</b> |                        |             |
| Boiling point                        | > 89 °C                |             |
| Flash point                          | 36 °C                  |             |
| <b>Flammability</b>                  |                        |             |
| Lower explosion limits               | 2,1 vol. %             |             |
| Upper explosion limits               |                        |             |
| Ignition temperature                 | > 400 °C               |             |
| Density (at 20 °C) :                 | 0,98 g/cm <sup>3</sup> |             |
| Water solubility :                   | Miscible               |             |
| at (20 °C)                           |                        |             |

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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**

Strong acids and oxidizing agents

**Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

**Additional information**

No decomposition if stored and applied as directed.

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**11. Toxicological information**

**Empirical data on effects on humans**

Harmful if swallowed.  
Causes severe burns.  
Inhalation of vapours in high concentration can cause narcotic effects.

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**12. Ecological information**

**Further information**

Hazard to waters  
Product is not allowed to be discharged into aquatic environment.

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**13. Disposal considerations**

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**Advice on disposal**

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**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**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.

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

|                       |       |
|-----------------------|-------|
| ADR/RID class         | 8     |
| Classification code : | CF1   |
| Hazard-no.            | 83    |
| UN number             | 2920  |
| Hazard label          | 8 + 3 |
| ADR/RID packing group | II    |
| Limited quantity :    | LQ 22 |

**Description of the goods**

Corrosive liquid, flammable, n.o.s. (Laurylpropylene diamine, Propan-1-ol)

**Remarks (land transport)**

LQ 22: combination packaging: 1 l / 30 kg (total gross mass); trays: 0,5 l / 20 kg (total gross mass).

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

|                    |             |
|--------------------|-------------|
| IMDG code          | 8           |
| UN number          | 2920        |
| Marine pollutant   | No          |
| EmS                | F-E; S-C    |
| Limited quantity : | 1 L / 30 kg |
| IMDG packing group | II          |
| Hazard label       | 8 + 3       |

**Description of the goods**

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (laurylpropylene diamine 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                         | 8     |
| UN/ID number                          | 2920  |
| Hazard label                          | 8 + 3 |
| IATA-packing instructions - Passenger | 808   |
| IATA-max. quantity - Passenger        | 1 L   |
| IATA-packing instructions - Cargo     | 820   |
| IATA-max. quantity - Cargo            | 30 L  |
| ICAO packing group                    | II    |

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Limited quantity Passenger

Y808 / 0,5 L

**Description of the goods**

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (laurylpropylene diamine and propan-1-ol, solution)

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**15. Regulatory information**

**Labelling**

Indication of danger C - Corrosive

Additional advice on labelling According to EC-regulations the product is to be labelled as follows:

**Hazardous component(s) to be indicated on label**

Laurylpropylene diamine

**R phrases**

- 10 Flammable.
- 22 Harmful if swallowed.
- 35 Causes severe burns.

**S phrases**

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Additional information**

Regulation (EC) No 648/2004 (Regulation on detergents):

Non-ionic surfactants: < 15 - 30%, NTA < 5%, Parfum: < 5 %, Ingredients subject to the labelling obligation according to SCCP: Limonene, Hexyl Cinnamal

**National regulatory information**

Employment restrictions Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class 2 - water contaminating  
1999/13/EC (VOC) 5 - 15 %

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**16. Other information**

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

- 10 Flammable.
- 11 Highly flammable.
- 22 Harmful if swallowed.
- 35 Causes severe burns.
- 36/38 Irritating to eyes and skin.
- 41 Risk of serious damage to eyes.
- 50 Very toxic to aquatic organisms.
- 67 Vapours may cause drowsiness and dizziness.

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**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.)*