

## HERWE DERMASEPT N LIQUID

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

- 1.1 **Product identifier:**  
HERWE DERMASEPT N LIQUID
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
**Use of the substance/mixture**  
Hand disinfectant  
BAuA-No N-71514
- 1.3 **Details of the supplier:**  
HERWE GmbH  
Kleines Feldlein 16-20  
D-74889 Sinsheim  
Tel. +49 7261 9281-0  
Fax + 49 7261 9281-20/-30  
info@herwe.de  
www.herwe.de
- 1.4 **Emergency telephone number:**  
Germany: Tel. +49 7261 9281-0  
Vergiftungsinformationszentrale der Gesundheit Österreich GmbH: Tel.+43 1406 43 43

### SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture Regulation (EC) No. 1272/2008:**

**Hazard categories:**

Flammable liquid:	Flam. Liq. 2
Serious eye damage/eye irritation:	Eye Irrit. 2
Hazardous to the aquatic environment:	Aquatic Chronic 3

**Hazard Statements:**

Highly flammable liquid and vapour.  
Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.

- 2.2 **Label elements:**

Signal word: Danger

Pictograms:



Hazard statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to approved disposal company or local collection.

- 2.3 **Other hazards**

Vapours may form explosive mixture with air.

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### SECTION 3: Composition/information on ingredients

3.1 **Mixtures**  
**Chemical characterization**  
Alcoholic solution

**Hazardous components**

CAS-No	Chemical name			Quantity
	EC No	Index No.	REACH No	
	GHS Classification			
64-17-5	Ethanol			65 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
112-72-1	Tetradecanol			< 1 %
	204-000-3		01-2119485910-33	
	Eye Irrit. 2, Aquatic Chronic 1; H319 H410			

Full text of H and EUH statements: 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 skin**

No specific precautions required.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.

**After ingestion**

Rinse out mouth and give plenty of water to drink.  
Seek medical treatment immediately.  
If swallowed or in the event of vomiting, risk of entering the lungs.

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

Causes serious eye irritation.  
Inhalation of vapours in high concentration can cause narcotic effects.

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

Treat symptoms.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media:

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

##### Unsuitable extinguishing media

Full water jet

#### 5.2 Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide and carbon dioxide

Risk of formation of toxic pyrolysis products.

#### 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/ground water.

#### 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 see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Advice on safe handling

Use only in well-ventilated areas.

Use solvent-resistant equipment.

Avoid spilling or spraying in enclosed areas.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take measures against electrostatically charging.

Vapours are heavier than air and spread along ground.

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

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### SECTION 7: Handling and storage

#### 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.  
Protect containers from heat / overheating.  
Keep only in original container.

##### Advice on storage compatibility

Incompatible with oxidizing agents.

##### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

#### 7.3 Specific end use(s)

Hand disinfectant

### 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
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### 8.2 Exposure controls

##### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

##### Protective and hygiene measures

Do not breath vapours or spray mist.  
When using do not eat, drink or smoke.  
Avoid contact with eyes.  
Remove and wash contaminated clothes before re-use.

##### Eye/face protection

If used properly, no need to wear eye protection. Otherwise wear protective goggles with integrated side shields.

##### Respiratory protection

No personal respiratory protective equipment normally required.  
In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state: liquid  
Colour: colourless  
Geruch: alcoholic  
pH-value (at 20 °C): 5,5 – 8,0

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### Changes in the physical state

Melting point:	- 114 °C *)
Initial boiling point and boiling range:	78 °C *)
Sublimation point:	n.a.
Softening point:	n.d.
Flash point:	21 °C

##### Flammability

Solid:	n.a.
Gas:	n.a.

##### Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits:	3,1 Vol.-% *)
Upper explosion limits:	27,7 Vol.-% *)
Ignition temperature:	400 °C *)

##### Auto-ignition temperature

Solid:	n.a.
Gas:	n.a.
Decomposition temperature:	nd.

##### Oxidizing properties

Not oxidising.	
Vapour pressure: (at 20 °C)	58 hPa *)
Density (at 20 °C):	0,875 - 0,885 g/cm <sup>3</sup>
Bulk density:	n.a.
Water solubility: (at 20 °C):	Miscible

##### Solubility in other solvents

Partition coefficient:	n.d.
Viscosity / dynamic:	n.d.
Viscosity / kinematic:	n.d.
Flow time:	n.d.
Vapour density:	n.d.
Evaporation rate:	n.d.
Solvent separation test:	n.d.
Solvent content:	60 - 75 %

#### 9.2 Other information

\*) Ethanol

### 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.

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### SECTION 10: Stability and reactivity

- 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
- 10.6 Hazardous decomposition products**  
Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Based on available data, the classification criteria are not met.

##### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

##### Sensitising effects

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

##### Additional information on tests

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

##### Practical experience

##### Other observations

Inhalation of vapours in high concentration can cause narcotic effects.

Components of the product may be absorbed into the body through the skin.

May cause irritation of the mucous membranes.

Defatting to skin.

### SECTION 12: Ecological information

- 12.1 Toxicity**  
Ecological data are not available.  
Harmful to aquatic life with long lasting effects.
- 12.2 Persistence and degradability**  
No data available  
Ethanol: Readily biodegradable (to OECD criteria).

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### SECTION 12: Ecological information

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Ergebnisse der PBT- und vPvB-Beurteilung**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

**12.6 Other adverse effects**

Low hazard to waters.

**Further information**

Do not discharge into surface waters/groundwater.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Disposal recommendations**

Can be incinerated, when in compliance with 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; 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.

## HERWE DERMASEPT N LIQUID

### SECTION 14: Transport information

	Land transport	Inland waterways transport	Marine transport	Air transport
	- ADR - - RID -	- ADN -	- IMDG -	- IATA-DGR - - ICAO-TI -
14.1 UN-number	UN 1170	UN 1170	UN 1170	UN 1170
14.2 UN proper Shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
14.3 Transport-hazard class(es)	3	3	3	3
14.4 Packing group Hazard label:	II 3 	II 3 	II 3 	II 3 
Classification code:F1		F1	-	-
Limited quantity:	1 L / 30 kg	1 L / 30 kg	1 L / 30 kg	1 L (Passenger)
Passenger LQ:	-	-	-	Y341
Excepted quantity:	E2	E2	E2	E2
Transport category:	2	-	-	-
Hazard number:	33	-	-	-
Tunnel restriction code:	D/E	-	-	-
Marine pollutant:	-	-	No	-
EmS:	-	-	F-E, S-D	-
IATA-packaging instructions - Passenger:	-	-	-	353
IATA-max. quantity - Passenger:	-	-	-	5 L
IATA- packaging instructions - Cargo:	-	-	-	364
IATA-max. quantity - Cargo:	-	-	-	60 L
14.5 Environmentals hazards ENVIRONMENTALLY HAZARDOUS: no				
14.6 Special precautions for users Take the usual precautions when handling with chemicals.				
14.7 Transport in bulk according to Annex II of Marpol 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

2004/42/EC (VOC): 65 %  
Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS (SEVESO III):



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### SECTION 15: Regulatory information

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### 15.2 Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

Changes in chapter: 3, 9, 15

#### Abbreviations and acronyms

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG International Maritime Code for Dangerous Goods  
IATA/ICAO International Air Transport Association / International Civil Aviation Organization  
MARPOL International Convention for the Prevention of Pollution from Ships  
IBC-Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
REACH Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS Chemical Abstract Service  
EN European norm  
ISO International Organization for Standardization  
DIN Deutsche Industrie Norm  
PBT Persistent Bioaccumulative and Toxic  
vPvB Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

#### Relevant H and EUH statements (number and full text) H225 Flüssigkeit und Dampf leicht entzündbar.

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful 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)