

Trade name: hygienicDES FORTE

Substance number: SUB302022070000

Version: 7 / EU

Date revised: 11.12.2015

the date of issue: 30.01.14

Replaces Version: 6 / EU

Print date: 22.12.15

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

1.1. Product identifier

hygienicDES FORTE

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

Use of the substance/preparation

Disinfectants and general biocidal products, For industrial application only.

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
A-5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-Mail regulatoryaffairs@hagleitner.at
Information provided Regulatory Affairs
by / telephone
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

Address/Supplier

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
AT5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

1.4. Emergency telephone number

Anti Poison Center Vienna: +43 (0)1 406 43430

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 3 H226

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

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**Signal word**

Warning

Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P501 Dispose of contents/container according to the local/national rules and regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Always read the product information and label before use.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Other information**

Complete text of R-phrases in Chapter 16

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. In case of accident or if you feel unwell, seek medical advice immediately.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

The following symptoms may occur: Narcosis

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Treat symptomatically

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, Dry chemical extinguisher, Carbon dioxide, Water spray jet

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting 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

Use breathing apparatus if exposed to vapours/dust/aerosol. 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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Use only in well-ventilated areas.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours can form an explosive mixture with air.

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires B (Combustible liquid substances)

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value \geq 5 \leq 25 °C

Storage stability

Storage life: 3 years

Requirements for storage rooms and vessels

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Storage rooms must be properly ventilated. Keep in original packaging, tightly closed.

Hints on storage assembly

Do not store together with: Oxidising agents

Further information on storage conditions

Keep at temperature not exceeding 30 °C.

7.3. Specific end use(s)

For industrial application only. Disinfectants and general biocidal products

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****Ethanol**

List	TRGS 900			
Type	TRGS 900			
Value	500	mg/m ³	960	ml/m ³
Maximum limit value: 2(II)				

Other information

Maintain air concentrations below occupational exposure standards.

8.2. Exposure controls**Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

Do not inhale vapours. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Avoid contact with skin. Observe the usual precautions for handling chemicals.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Reference substance	Ethanol		
Appropriate Material	nitrile		
Material thickness	= 0,35	mm	
Breakthrough time	> 4	h	
Appropriate Material	Polychloroprene		
Material thickness	= 0,5	mm	
Breakthrough time	> 4	h	
Appropriate Material	Vinyl-PVC		
Material thickness	= 0,5	mm	
Breakthrough time	> 4	h	
Appropriate Material	fluororubber		
Material thickness	= 0,4	mm	
Breakthrough time	> 8	h	

z.B.: BRILLANT nitrilX-TREME, Art.-Nr. 4451001000 oder BRILLANT nitrilSTYLE, Art.-Nr. 4451001300
BRILLANT nitrilCOMFORT, Art.-Nr. 4451000700
BRILLANT nitrilSTYLE, Art.-Nr. 4451001300

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid			
Colour	colourless			
Odour	alcohol-like			
pH value				
Value	appr. 6	to	8	
Concentration/H ₂ O	= 100	%		
Temperature	= 20	°C		
Melting point				
Value	< -10			°C
Sublimation point				
Remarks	not determined			
Initial boiling point and boiling range				
Value	appr. 85			°C
Flash point				
Value	appr. 24			°C
Evaporation rate				
Remarks	not determined			
Upper/lower flammability or explosive limits				
Lower explosion limit	3,4			%(V)
Vapour pressure				
Remarks	not determined			
Vapour density				
Remarks	not determined			
Density				
Value	appr. 0,932			g/cm ³
Temperature	= 20	°C		
Solubility in water				
Temperature	= 20	°C		
Remarks	miscible			
Solubility(ies)				
Remarks	not determined			
Partition coefficient: n-octanol/water				
Remarks	not determined			
Ignition temperature				
Remarks	not determined			
Auto-ignition temperature				
Remarks	not determined			
Combustion factor				
Remarks	not determined			
Decomposition temperature				
Remarks	not determined			
Viscosity				
Remarks	not determined			

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9.2. Other information**Bulk density**

Remarks not determined

Packed bulk density

Remarks not determined

Solvent content

Value < 50 %

Solids content

Remarks not determined

Saturation Concentration

Remarks not determined

Critical point

Remarks not determined

Dissociation constant

Remarks not determined

Surface tension

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

Oxidising agents

10.4. Conditions to avoid

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

Product reacts with: Oxidising agents

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****Ethanol**

Species	rat	
LD50	> 2000	mg/kg

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Method OECD 401

Acute dermal toxicity (Components)**Ethanol**

Species	rabbit	
LD50	> 2000	mg/kg
Method	OECD 402	

Acute inhalative toxicity (Components)**Ethanol**

Species	rat	
LC50	> 20	mg/l
Duration of exposure	= 4	h
Administration/Form	Vapors	

Skin corrosion/irritation

Remarks No data available

Serious eye damage/irritation

Remarks No data available

Sensitization

Remarks No data available

Subacute, subchronic, chronic toxicity

Remarks No data available

Mutagenicity

Remarks No data available

Reproductive toxicity

Remarks No data available

Carcinogenicity

Remarks No data available

Specific Target Organ Toxicity (STOT)

Remarks No data available

Experience in practice

Can be absorbed through skin. When in contact with the mucous membrane, it can cause an anesthetic effect (Numb feeling). Irritates the mucous membrane.

Other information

By appropriate use of the product no health damage is known.

SECTION 12: Ecological information**12.1. Toxicity****General information**

No data available

Fish toxicity (Components)**Ethanol**

Species	Fathead minnow (Pimephales promelas)	
LC50	= 15300	mg/l
Duration of exposure	= 96	h
Method	US-EPA	

Daphnia toxicity (Components)**Ethanol**

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Species	Ceriodaphnia spec	
EC50	> 10000	mg/l
Duration of exposure	= 48 h	
Source	Manufacturer's data	

Ethanol

Species	Daphnia magna	
EC50	> 10000	mg/l
Duration of exposure	= 48 h	

Algae toxicity (Components)**Ethanol**

Species	Chlorella vulgaris	
EC10	= 11,5	mg/l
Duration of exposure	= 3 d	
Method	OECD TG 201	

Ethanol

Species	Chlorella vulgaris	
EC50	= 275	mg/l
Duration of exposure	= 3 d	
Method	OECD TG 201	

Bacteria toxicity (Components)**Ethanol**

	= 5800	mg/l
Duration of exposure	= 4 h	

12.2. Persistence and degradability**General information**

No data available

Biodegradability

evaluation readily degradable

12.3. Bioaccumulative potential**General information**

No data available

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

No data available

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

No data available

12.6. Other adverse effects**General information**

No data available

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

Disposal recommendations for the product

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EWC waste code 20 01 13* solvents
Dispose of as hazardous waste.

Disposal recommendations for packaging

EWC waste code 15 01 02 plastic packaging
Uncontaminated packaging may be taken for recycling.

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

UN 1987

14.2. UN proper shipping name

ALCOHOLS, N.O.S. (Ethanol)

14.3. Transport hazard class(es)

Class 3

Label 3

14.4. Packing group

Packing group III

Limited Quantity 5 I

Transport category 3

14.5. Environmental hazards

-

Tunnel restriction code D/E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1987

14.2. UN proper shipping name

ALCOHOLS, N.O.S. (Ethanol)

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group III

14.5. Environmental hazards

-

14.6. Special precautions for user

The relevant transport regulations have to be considered.

Air transport ICAO/IATA**14.1. UN number**

UN 1987

14.2. UN proper shipping name

ALCOHOLS, N.O.S. (Ethanol)

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group III

14.5. Environmental hazards

-

Information for all modes of transport

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14.6. Special precautions for user

The relevant transport regulations have to be considered.

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

not determined

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC**

VOC (CH) = 45 %

VOC (EU) = 45 %

Biocide Substance

Ethanol

Concentration 450 g/kg

CAS No. 64-17-5

15.2. Chemical safety assessment

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

SECTION 16: Other information

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

IMDG: International Maritime Code for Dangerous Goods

IATA: International Civil Aviation Organization

CAS: Chemical Abstracts Service

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Compound

INCI: International Nomenclature of Cosmetic Ingredients

MAK: Maximale Arbeitsplatz-Konzentration

NOEL: No observable effect level

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

CEFIC: European Chemical Industry Council

DMEL: Derived minimal effect level

DNEL: Derived no effect level

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

IMO: International Maritime Organization

EU: European Union

EC: European Community

GHS: Globally Harmonized System of classification and Labelling of Chemicals

UN: United Nations

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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