

EC Safety Data Sheet 1907/2006/EC HandsCLEAN

1. Commercial product name and supplier




Commercial product name: HandsCLEAN
Application: Disinfectant
Producer: FAVODENT Karl Huber GmbH
 Greschbachstraße 17
 D-76229 Karlsruhe, Germany
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2. Hazard identification

R 10 Flammable R 67 Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

<u>Hazardous components:</u>						
	<u>CAS-No.</u>	<u>EINECS-No.</u>	<u>EG-Ind.-No.</u>	<u>Label</u>	<u>R-Phrases</u>	<u>%</u>
Ethanol	64-17-5	200-578-6	603-005-00-5	F 	11	30-40
1-Propanol	1-23-8	200-746-9	-	F,Xi  	11-41-67	5-10

4. First aid measures

General information:

Remove affected person from the danger area and lay down. Change out of contaminated, saturated clothing.

On contact with eyes:

On contact with the eyes, rinse immediately with plenty of water. If irritation of the eyes occurs, seek ophthalmologic advice.

On contact with skin:

On contact with the skin, wash off immediately with soap and water. If skin irritation persists, seek medical advice.

If swallowed:

Rinse out mouth and then drink plenty of water. Do not induce vomiting, seek medical advice.

On Inhalation:

Provide with fresh air. In case of inhalation, affected person should be moved into fresh air and kept still

5. Fire-fighting measures

Suitable extinguishing media:

Foam, powder, carbon dioxide, water fog

extinguishing media to avoid:

Do not use direct water stream

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6. Accidental release measures

Personal precautions:

Avoid skin contact with liquid.

Environmental precautions:

Keep away from sources of ignition. No smoking - Explosion hazards! Do not allow to enter drains/surface waters/groundwater.

Methods for cleaning up / taking up:

Suitable material for picking up: Universal binder, Sand, Kieselgur. Treat recovered material as prescribed in: Disposal considerations.

7. Handling and storage

Hints for safe handling:

Avoid the following: Skin and eye contact and inhalation of substance. Keep container closed.

Hints for protection against fire and explosion

Protect from sunlight and do not expose to temperatures exceeding 50°C.

Storage:

Product is highly flammable. Store in cool, dry well ventilated area away from sources of ignition and heat. Do not smoke. Take precautionary measures against static discharges.

Storage class:

3A

8. Exposure limitation and personal protective equipment

Constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

MAK (TRGS 900):

960 mg/m³ 500 ml/m³ *Ethanol* CAS-No.: 64-17-5

MAK (TRGS 900):

500 mg/m³ 200 ml/m³ *1-Propanol* CAS-No.: 71-23-8

Personal protection equipment

Respiratory protection:

Respiratory protection necessary at exposure limit excess. Filtering device (full mask or mouthpiece) with filter A2.

Hand protection:

Hand protection is necessary. Suitable materials is Butyl (butyl rubber) 0,5mm. Breakthrough time (maximal wear duration at permanent contact:): > 60min.min.

Eye protection:

Eye glasses with side protection.

Protective clothing:

Labor smock.

General health and safety measures:

Usual hygienic measures are necessary. When using, do not drink, eat or smoke. Remove contaminated, saturated clothing.

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9. Physical and chemical properties

<u>Appearance:</u>	gel
<u>Colour:</u>	colourless
<u>Odour:</u>	alcoholic
<u>Boiling point:</u>	79°C
<u>Ignition temperature:</u>	425°C (Ethanol)
<u>Flashpoint:</u>	25°C
<u>Explosion limits:</u>	Lower: 3,5 Vol.% Upper: 15,0 Vol.% (Ethanol)
<u>Vapourpressure:</u>	no data available
<u>Solubility in water:</u>	soluble
<u>Density:</u>	0,91g/ml
<u>pH-Value:</u>	6-8

10. Stability and reactivity

Conditions to avoid:

When heated:

Formation of explosive mixtures with air.

Materials to avoid:

Strong acids and bases. Oxidative material

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed.

Further information:

Highly flammable product. Avoid ignition sources such as flames or spark producing equipment.

11. Toxicological information

Acute toxicity:

LD₅₀ oral 7060 mg/kg (rat) (Ethanol)

LD₅₀ inhal./10h 38000 mg/kg (rab.) (Ethanol)

LD₅₀: oral 8000 mg / kg (rat) (n-Propanol)

LC₅₀ inhal. 9,8 mg/kg (rab.) (n-Propanole)

LD₅₀ derm. 4000 mg/kg (rab.) (n-Propanole)

After eye contact:

Irritant, risk of serious damage to eyes.

After skin contact:

Irritant.

After inhalation:

Sensitization:

Not sensitizing.

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12. Ecological information

Information about elimination (persistence and degradation)

Abiotic degradation in air.

Aquatic toxicity:

Goldorfe (Leuc. Idus) LC₅₀: 8150 mg/l (Ethanol)

Goldorfe (Leuc. Idus) LC₀: >4000mg mg/l 96h (n-Propanole)

EC₀ > 1000mg/l (n-Propanole)

Further ecological information:

Will not pollute the effluent provided it is processed correctly. Do not allow to enter drains/surface water / groundwater.

German „Wassergefährdungsklasse“ WGK 1.

13. Disposal considerations

Disposal / Waste (product):

070600 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

Packages:

200139 plastics.

14. Transport information

Transport at land (GGVS/GGVE)

GGVS/E Class:

3

Packing group:

III

Kemler-No:

30

UN-No:

1993

Classification Code:

F1

Limited quantity:

LQ7

Name of substance:

flammable liquid, n.o.s. (contains 1-propanole, ethanol)

Transport at sea (IMDG/GGVSee):

IMDG/GGVSee-Class:

3

IMDG-Code page:

-

UN-No:

1993

EMS-Nummer:

F-E, S-E

MFAG:

-

Marine pollutant:

No

Packing group:

III

Name of substance:

flammable liquid, n.o.s. (contains 1-propanole, ethanol)

Danger label:

3

Air transport (ICAO-TI and IATA-DGR):

ICAO/IATA-Class:

3

UN/ID-No:

1993

Packing group:

III

Danger label:

3

Name of substance:

flammable liquid, n.o.s. (contains 1-propanole and ethanol)

**EC Safety Data Sheet 1907/2006/EC
HandsCLEAN****15. Regulatory information**

This product requires classification according to the criteria of the EC and the „Gefahrstoffverordnung“

Labelling:

Not necessary

Risk phrases:

R 10 Flammable.

R 67 Vapours may cause drowsiness and dizziness.

Safety phrases:

S 7 Keep container tightly closed.

S 16 Keep away from sources of ignition – No smoking.

16. Other information

The above mentioned date corresponds to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.