

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : HD 410 Hand Disinfection  
Revision date : 06.02.2023  
Print date : 06.02.2023

Version (Revision) : 4.1.1 (4.1.0)

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

#### 1.1 Product identifier

HD 410 Hand Disinfection  
Unique Formula Identifier : M7AA-1TN7-7C05-G3U7

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

##### Relevant identified uses

HD 410 is an alcohol-based rub-in preparation for hand disinfection.

##### Products Category [PC]

PC 8 - Biocidal product

##### Uses advised against

None, if handled according to order.

##### Remark

The product is intended for professional use.

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier

orochemie GmbH + Co. KG

**Street :** Max-Planck-Straße 27

**Postal code/City :** 70806 Kornwestheim

**Telephone :** +49 7154 1308-0

**Telefax :** +49 7154 1308-40

**Information contact :** DÜRR DENTAL SE, Höpfigheimer Str. 17, 74321 Bietigheim-Bissingen, Germany

Tel: +49 7142 705-0, Fax: +49 7142 705-500, info@duerrdental.com

in Great Britain/Ireland:

DÜRR DENTAL [Products] UK Ltd., 14 Linnell Way - Telford Way Industrial Estate, Kettering Northants NN16 8PS, United Kingdom, info@duerruk.com

#### 1.4 Emergency telephone number

INT: +49 6132 84463 (24 h/7 d)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

##### Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

##### Signal word

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Danger

### Hazard components for labelling

PROPAN-2-OL ; CAS No. : 67-63-0

1-PROPANOL ; CAS No. : 71-23-8

### Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### Precautionary statements

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../ if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to hazardous or special waste collection point.

## 2.3 Other hazards

The mixture does not contain any substances that have endocrine disrupting properties. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description

HD 410 contains alcohols and auxiliary agents in aqueous solution.

#### Hazardous ingredients

PROPAN-2-OL ; REACH No. : 01-2119457558-25 ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction :  $\geq 45 - < 50$  %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

1-PROPANOL ; REACH No. : 01-2119486761-29 ; EC No. : 200-746-9; CAS No. : 71-23-8

Weight fraction :  $\geq 25 - < 30$  %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Dam. 1 ; H318 STOT SE 3 ; H336

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

When in doubt or if symptoms are observed, get medical advice. Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

When in doubt or if symptoms are observed, get medical advice.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

If swallowed, immediately drink: Water Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray jet Water mist

#### Unsuitable extinguishing media

Full water jet

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

None known.

#### Hazardous combustion products

Vapours can form explosive mixtures with air.

### 5.3 Advice for firefighters

Cool endangered containers with water in case of fire.

#### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. When using do not smoke. See protective measures under point 7 and 8.

#### For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

#### For emergency responders

##### Personal protection equipment

See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3 Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

#### Other information

Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep/Store only in original container. Please note safety instructions and directions for use on the drum. Handle and open container with care. Keep away from sources of ignition - No smoking. Provide adequate ventilation. Do not breathe vapour/aerosol.

#### Protective measures

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### Measures to prevent fire

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed and in a well-ventilated place.

#### Hints on joint storage

Do not store together with oxidizing, self-igniting substances and highly flammable solid substances. Store the foodstuffs separately.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TLV/STEL ( GB )

Limit value : 500 ppm / 1250 mg/m<sup>3</sup>

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 400 ppm / 999 mg/m<sup>3</sup>

1-PROPANOL ; CAS No. : 71-23-8

Limit value type (country of origin) : TLV/STEL ( GB )

Limit value : 250 ppm / 625 mg/m<sup>3</sup>

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 200 ppm / 500 mg/m<sup>3</sup>

#### DNEL-/PNEC-values

There are no data available on the preparation itself.

#### DNEL/DMEL

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 319 mg/kg

Assessment factor : 24 h

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 89 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 26 mg/kg

Assessment factor : 24 h

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 888 mg/kg

Assessment factor : 24 h

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 500 mg/m<sup>3</sup>

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### 1-PROPANOL ; CAS No. : 71-23-8

Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1036 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 81 mg/kg  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 80 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 61 mg/kg  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1723 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 136 mg/kg  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 268 mg/m<sup>3</sup>

### PNEC

#### PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 140,9 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 140,9 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 28 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 552 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 552 mg/kg  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 160 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 2251 mg/l

#### 1-PROPANOL ; CAS No. : 71-23-8

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 10 mg/l  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 6,83 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 1 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,683 mg/l

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Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 2,2 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 22,8 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 27,5 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,28 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,75 mg/kg  
Limit value type : PNEC (Soil)  
Limit value : 1,49 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 96 mg/l

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

No special measures are necessary.

##### Skin protection

###### Hand protection

Hand protection is not required.

###### Body protection

Body protection: not required.

##### Respiratory protection

Usually no personal respiratory protection necessary.

#### General information

Keep away from food, drink and animal feedingstuffs. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

#### Other protection measures

Provide adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid

**Colour :** light blue

**Odour :** Alcohol

#### Safety characteristics

<b>Melting point/freezing point :</b>	( 1013 hPa )	not determined
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	not determined
<b>Decomposition temperature :</b>	( 1013 hPa )	not determined
<b>Flash point :</b>		22 °C
<b>Auto-ignition temperature :</b>		360 °C
<b>Lower explosion limit :</b>		1 Vol-%
<b>Upper explosion limit :</b>		13,5 Vol-%
<b>Vapour pressure :</b>	( 50 °C )	160 hPa
<b>Density :</b>	( 20 °C )	approx. 0,86 g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	< 3 %
<b>Water solubility :</b>	( 20 °C )	100 Weight-%

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<b>pH :</b>				not applicable	
<b>log P O/W :</b>				not determined	
<b>Flow time :</b>	( 20 °C )	<	20	s	DIN-cup 4 mm
<b>Odour threshold :</b>				not determined	
<b>Maximum VOC content (EC) :</b>			73	Weight-%	
<b>Oxidising liquids :</b>				Not applicable.	
<b>Explosive properties :</b>				Not applicable.	
<b>Corrosive to metals :</b>				Not corrosive to metals.	

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None, if handled according to order.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Oxidizing agent.

### 10.6 Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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

#### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 423
Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant

#### Practical experience/human evidence

Patch testing: The product does not have any skin irritating or sensitizing properties. The product has a slightly irritating effect on the eyes.

#### Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402
Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	not relevant

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### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalation (vapour)  
Effective dose : not relevant  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 27,2 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 25 mg/l  
Exposure time : 6 h  
Method : OECD 403  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 72,6 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : > 10000 ppm  
Exposure time : 6 h  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : 47,5 mg/l  
Parameter : LC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 33,8 mg/l  
Exposure time : 4 h  
Method : OECD 403

### Corrosion

Not an irritant. Method : Human Skin Model (HSM) test Rabbit's eye: mild irritation. Method : OECD 405.

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. Mouse: non-sensitizing. Method : OECD 429.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

#### Carcinogenicity

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

#### Germ cell mutagenicity

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

#### Reproductive toxicity

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

### STOT-single exposure

May cause drowsiness or dizziness.



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### STOT-repeated exposure

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

### Aspiration hazard

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

The mixture does not contain any substances that have endocrine disrupting properties.

### Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

##### Acute (short-term) fish toxicity

Parameter :	LC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	4480 mg/l
Exposure time :	96 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	9640 mg/l
Exposure time :	96 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Leuciscus idus (golden orfe)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	48 h

##### Acute (short-term) toxicity to crustacea

Parameter :	EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	3644 mg/l
Exposure time :	48 h
Parameter :	EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	13299 mg/l
Exposure time :	48 h
Parameter :	EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	9714 mg/l
Exposure time :	24 h
Parameter :	EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	> 100 mg/l
Exposure time :	48 h

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### Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 504 h  
Method : OECD 211

### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 3100 mg/l  
Exposure time : 168 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 9170 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1800 mg/l  
Exposure time : 168 h

### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Algae  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 1150 mg/l  
Exposure time : 48 h

### Toxicity to microorganisms

Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 2700 mg/l  
Exposure time : 16 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 100 mg/l  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Method : OECD 209  
Parameter : EC10 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudomonas putida

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Evaluation parameter : Bacteria toxicity  
Effective dose : 5175 mg/l  
Exposure time : 18 h

### 12.2 Persistence and degradability

#### Abiotic degradation

No data available.

#### Biodegradation

Parameter : Biodegradation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Inoculum : Degree of elimination  
Evaluation parameter : Aerobic  
Degradation rate : > 95 %  
Method : OECD 301E

All active agents are biodegradable at the dilution rates arising in the sewage system.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

#### Distribution

There are no data available on the preparation itself.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Endocrine disrupting properties

The mixture does not contain any substances that have endocrine disrupting properties.

### 12.7 Other adverse effects

No information available.

### 12.8 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### After intended use

##### Disposal operations

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

##### Recovery operations

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

##### Waste codes/waste designations according to EWC/AVV

Concentrate/larger quantities: 18 01 06\* (disinfectant).

## SECTION 14: Transport information

### 14.1 UN number

UN 1987

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ALCOHOLS, N.O.S. ( ISOPROPANOL · N-PROPANOL )

#### Sea transport (IMDG)

ALCOHOLS, N.O.S. ( ISOPROPANOL · N-PROPANOL )

#### Air transport (ICAO-TI / IATA-DGR)

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ALCOHOLS, N.O.S. ( ISOPROPANOL · N-PROPANOL )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 33  
Tunnel restriction code : D/E  
Special provisions : LQ 11 · E 2  
Hazard label(s) : 3

#### Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-D  
Special provisions : LQ 11 · E 2  
Hazard label(s) : 3

#### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3  
Special provisions : E 2  
Hazard label(s) : 3

### 14.4 Packing group

II

### 14.5 Environmental hazards

Land transport (ADR/RID) : No  
Sea transport (IMDG) : No  
Air transport (ICAO-TI / IATA-DGR) : No

### 14.6 Special precautions for user

None

### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

##### Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

##### National regulations

##### Restrictions of occupation

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### 16.1 Indication of changes

02. Label elements

### 16.2 Abbreviations and acronyms

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)

**Trade name :** HD 410 Hand Disinfection  
**Revision date :** 06.02.2023  
**Print date :** 06.02.2023

**Version (Revision) :** 4.1.1 (4.1.0)

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimates  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CMR = Carcinogen, Mutagen or Reproductive toxicant  
CO<sub>2</sub> = Carbon dioxide  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EC = European Commission  
EC50 = Half maximal effective concentration  
EN = European Standard (Norm)  
EU = European Union  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
H statement = GHS Hazard statement  
IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions  
IMDG = International Maritime Dangerous Goods  
LC50 = Median lethal concentration  
LD50 = Median lethal dose  
LogPow = Logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NOEC/NOEL = No observed effect concentration/level  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RMM = Risk Management Measure  
RRN = REACH Registration Number  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
SVHC = Substances of Very High Concern  
TLV/STEL = Threshold limit value/short-term exposure limit  
TLV/TWA = Threshold limit value/time weighted average  
UN = United Nations  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### 16.6 Training advice

None

### 16.7 Additional information

Follow the instructions for use on the label.

The above information describes exclusively the safety requirements of the product and is based on our present-day

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knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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