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

1.1 Product identifier
FD 322 Quick-acting disinfection

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

Relevant identified uses
FD 322 is an aldehyde-free, ready-to-use solution for the rapid disinfection of alcohol-resistant surfaces of medical devices.

Product Categories [PC]
PC0 - Other
Disinfectants

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 (manufacturer/importer/only representative/downstream user/distributor)
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
Tel: +44 1536 526740, Fax.: +44 1536 526749, 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. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.
STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

2.2 Label elements

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

Hazard pictograms

Flame (GHS02) · Exclamation mark (GHS07)

Signal word
Warning
Hazard components for labelling
1-PROPAOL ; CAS No. : 71-23-8

Hazard statements
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves and eye/face protection.
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
None

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description
FD 322 contains alcohols, fragrances and auxiliary agents in aqueous solution.

Hazardous ingredients
1-PROPAOL ; REACH registration No. : 01-2119486761-29 ; EC No. : 200-746-9; CAS No. : 71-23-8
Weight fraction : ≥ 30 - < 35 %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Dam. 1 ; H318 STOT SE 3 ; H336

ETHANOL ; REACH registration No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5
Weight fraction : ≥ 25 - < 30 %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

PROPAN-2-OL ; REACH registration No. : 01-2119457558-25 ; EC No. : 200-661-7; CAS No. : 67-63-0
Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

Additional information
Full text of H- and EUH-phrases: 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
Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact
Wash with plenty of water. 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.

After 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.

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 (CO2) Extinguishing powder Water spray Water mist

Unsuitable extinguishing media
High power 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 (e.g. 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
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. Keep in a cool, well-ventilated place. Do not store in temperatures below 5 °C.

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

1-PROPANOL ; CAS No. : 71-23-8
Limit value type (country of origin) : TLV/STEL ( GB )
Limit value : 250 ppm / 625 mg/m³

ETHANOL ; CAS No. : 64-17-5
Limit value type (country of origin) : TLV/TWA ( GB )
Limit value : 1000 ppm / 1920 mg/m³

PROPAN-2-OL ; CAS No. : 67-63-0
Limit value type (country of origin) : TLV/STEL ( GB )
Limit value : 500 ppm / 1250 mg/m³
Limit value type (country of origin) : TLV/TWA ( GB )
Limit value : 400 ppm / 999 mg/m³

DNEL/DMEL and PNEC values

There are no data available on the preparation itself.

DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 1036 mg/m³

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 81 mg/kg

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 80 mg/m³

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 61 mg/kg

Limit value type : DNEL worker (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 1723 mg/m³

Limit value type : DNEL worker (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 136 mg/kg

Limit value type : DNEL worker (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )
## Exposure route 
<table>
<thead>
<tr>
<th>Route</th>
<th>Exposure frequency</th>
<th>Limit value</th>
<th>Safety factor</th>
<th>Limit value type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Long-term (repeated)</td>
<td>268 mg/m³</td>
<td>24 h</td>
<td>DNEL Consumer (local) (ETHANOL; CAS No.: 64-17-5)</td>
</tr>
<tr>
<td>Dermal</td>
<td>Long-term (repeated)</td>
<td>114 mg/m³</td>
<td>24 h</td>
<td>DNEL Consumer (systemic) (ETHANOL; CAS No.: 64-17-5)</td>
</tr>
<tr>
<td>Oral</td>
<td>Long-term (repeated)</td>
<td>87 mg/kg</td>
<td>24 h</td>
<td>DNEL Consumer (systemic) (ETHANOL; CAS No.: 64-17-5)</td>
</tr>
<tr>
<td>Dermal</td>
<td>Short-term (acute)</td>
<td>206 mg/kg</td>
<td>24 h</td>
<td>DNEL Consumer (systemic) (ETHANOL; CAS No.: 64-17-5)</td>
</tr>
<tr>
<td>Oral</td>
<td>Long-term (repeated)</td>
<td>343 mg/kg</td>
<td>24 h</td>
<td>DNEL Consumer (systemic) (ETHANOL; CAS No.: 64-17-5)</td>
</tr>
<tr>
<td>Dermal</td>
<td>Long-term (repeated)</td>
<td>888 mg/kg</td>
<td>24 h</td>
<td>DNEL Worker (systemic) (ETHANOL; CAS No.: 64-17-5)</td>
</tr>
<tr>
<td>Oral</td>
<td>Long-term (repeated)</td>
<td>26 mg/kg</td>
<td>24 h</td>
<td>DNEL Worker (systemic) (ETHANOL; CAS No.: 64-17-5)</td>
</tr>
<tr>
<td>Dermal</td>
<td>Long-term (repeated)</td>
<td>89 mg/m³</td>
<td>24 h</td>
<td>DNEL Consumer (systemic) (PROPAN-2-OL; CAS No.: 67-63-0)</td>
</tr>
<tr>
<td>Oral</td>
<td>Long-term (repeated)</td>
<td>26 mg/kg</td>
<td>24 h</td>
<td>DNEL Worker (systemic) (PROPAN-2-OL; CAS No.: 67-63-0)</td>
</tr>
<tr>
<td>Dermal</td>
<td>Long-term (repeated)</td>
<td>888 mg/kg</td>
<td>24 h</td>
<td>DNEL Worker (systemic) (PROPAN-2-OL; CAS No.: 67-63-0)</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Long-term (repeated)</td>
<td>950 mg/m³</td>
<td>24 h</td>
<td>DNEL Consumer (systemic) (PROPAN-2-OL; CAS No.: 67-63-0)</td>
</tr>
<tr>
<td>Oral</td>
<td>Long-term (repeated)</td>
<td>26 mg/kg</td>
<td>24 h</td>
<td>DNEL Worker (systemic) (PROPAN-2-OL; CAS No.: 67-63-0)</td>
</tr>
<tr>
<td>Dermal</td>
<td>Long-term (repeated)</td>
<td>888 mg/kg</td>
<td>24 h</td>
<td>DNEL Worker (systemic) (PROPAN-2-OL; CAS No.: 67-63-0)</td>
</tr>
</tbody>
</table>

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(EN / GB)
8.2 Exposure controls

Personal protection equipment

Eye/face protection
Eye glasses with side protection DIN EN 166

Skin protection

Hand protection
Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material
thickness 0.1 mm.  
Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.  
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Body protection
Body protection: not required.

Respiratory protection
Usually no personal respirative protection necessary.

General health and safety measures
Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

Occupational exposure controls
Technical measures to prevent exposure
Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: colourless
Odour: Alcohol

Safety relevant basis data
Melting point/melting range: (1013 hPa) No data available
Initial boiling point and boiling range: (1013 hPa) No data available
Decomposition temperature: (1013 hPa) No data available
Flash point: 25 °C
Ignition temperature: 360 °C
Lower explosion limit: 2,1 Vol-%
Upper explosion limit: 15 Vol-%
Vapour pressure: (50 °C) approx. 150 hPa
Density: (20 °C) 0,87 - 0,91 g/cm³
Solvent separation test: (20 °C) < 3 %
Water solubility: (20 °C) 100 Wt %
pH value: 5 - 8,5
Log P O/W: No data available
Flow time: (20 °C) < 20 s DIN-cup 4 mm
Odour threshold: No data available
Maximum VOC content (EC): 59,7 Wt %

Oxidising liquids: Not applicable.
Explosive properties: Not applicable.
Corrosive to metals: 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**
Oxidising agent.

10.6 **Hazardous decomposition products**
None known.

### SECTION 11: Toxicological information

11.1 **Information on toxicological effects**

#### Acute effects

**Acute oral toxicity**
- Parameter: LD50
- Exposure route: Oral
- Species: Rat
- Effective dose: > 2000 mg/kg
- Method: OECD 423

**Acute dermal toxicity**
- Parameter: LD50
- Exposure route: Dermal
- Species: Rat
- Effective dose: > 2000 mg/kg
- Method: OECD 402

**Acute inhalation toxicity**
- Parameter: ATEmix calculated
- Effective dose: not relevant

**Practical experience/human evidence**
The product does not have any skin irritating or sensitizing properties. There is no inhalation risk under normal application conditions.

**Acute dermal toxicity**
- Parameter: ATEmix calculated
- Exposure route: Inhalative (vapour)
- Effective dose: not relevant
- 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
- Parameter: LC50 (ETHANOL; CAS No.: 64-17-5)
  - Exposure route: Inhalation
  - Species: Rat
  - Effective dose: 125 mg/l
  - Exposure time: 4 h
  - Method: OECD 403
- 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 ( PROPA-N-2-OL ; CAS No. : 67-63-0 )
Exposure route : Inhalation
Species : Rat
Effective dose : 72.6 mg/l
Exposure time : 4 h

**Irritant and corrosive effects**

**Sensitisation**

**Repeated dose toxicity (subacute, subchronic, chronic)**

**Subacute oral toxicity**
Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route : Oral
Species : Rat
Effective dose : 1730 mg/kg
Exposure time : 24 h
Method : OECD 408

**Subacute inhalation toxicity**
Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route : Inhalation
Species : Rat
Effective dose : > 20 mg/l

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Based on available data, the classification criteria are not met.

**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**
There are no data available on the preparation itself.

**Acute (short-term) fish toxicity**
Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 11200 mg/l
Parameter : LC50 ( 1-PROPA-NOL ; 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 ( PROPA-N-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
Species: Leuciscus idus (golden orfe)
Evaluation parameter: Acute (short-term) fish toxicity
Effective dose: > 100 mg/l
Exposure time: 48 h

Parameter: LC50 (ETHANOL; CAS No.: 64-17-5)
Species: Pimephales promelas (fathead minnow)
Evaluation parameter: Acute (short-term) fish toxicity
Effective dose: > 15000 mg/l
Exposure time: 96 h

Chronic (long-term) fish toxicity
Parameter: NOEC (ETHANOL; CAS No.: 64-17-5)
Species: Ceriodaphnia spec
Evaluation parameter: Acute (short-term) daphnia toxicity
Effective dose: 9.6 mg/l

Acute (short-term) daphnia toxicity
Parameter: EC50 (ETHANOL; CAS No.: 64-17-5)
Species: Daphnia magna (Big water flea)
Evaluation parameter: Acute (short-term) daphnia toxicity
Effective dose: 9200 - 14300 mg/l
Exposure time: 48 h

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

Parameter: EC50 (ETHANOL; CAS No.: 64-17-5)
Species: Ceriodaphnia spec
Evaluation parameter: Acute (short-term) daphnia toxicity
Effective dose: 1806 mg/l

Chronic (long-term) daphnia toxicity
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) algae toxicity
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 (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
Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Chlorella vulgaris
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 275 mg/l
Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Selenastrum capricornutum
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 440 mg/l
Parameter : IC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201
Chronic (long-term) algae toxicity
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
Bacteria toxicity
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 : EC10 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : 5175 mg/l
Exposure time : 18 h
Effects in sewage plants
Parameter: EC50 (ETHANOL; CAS No.: 64-17-5)
Inoculum: Effects in sewage plants
Effective dose: 5800 mg/l
Exposure time: 4 h

12.2 Persistence and degradability
Abiotic degradation
No data available.

Biodegradation
The product is easily biodegradable according to OECD criteria. Method: OECD 301 D.

12.3 Bioaccumulative potential
No information available.

12.4 Mobility in soil
Known or predicted distribution to environmental compartments
There are no data available on the preparation itself.

Adsorption/Desorption

12.5 Results of PBT and vPvB assessment
No information available.

12.6 Other adverse effects
No information available.

12.7 Additional ecotoxicological information
Prevent from flowing into surface water/ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV
Waste code product
Concentrate/larger quantities: 18 01 06* (disinfectant).

Waste treatment options
Appropriate disposal / Product
Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

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

SECTION 14: Transport information

14.1 UN number
UN 1987

14.2 UN proper shipping name
Land transport (ADR/RID)
ALCOHOLS, N.O.S. (N-PROPANOL · ETHANOL)

Sea transport (IMDG)
ALCOHOLS, N.O.S. (N-PROPANOL · ETHANOL)

Air transport (ICAO-TI / IATA-DGR)
ALCOHOLS, N.O.S. (N-PROPANOL · ETHANOL)

14.3 Transport hazard class(es)
Land transport (ADR/RID)
Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : LQ 5 l · E 1
Hazard label(s) : 3

Sea transport (IMDG)
Class(es) : 3
EmS-No. : F-E / S-D
Special provisions : LQ 5 l · E 1
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)
Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group
III

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 Transport in bulk according to Annex II of Marpol and the IBC Code
not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
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
03. Hazardous ingredients

16.2 Abbreviations and acronyms
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
CO₂ = Carbon dioxide
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
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]
No information available.

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
Notice the directions for use on the label.

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