

No. 1907/2006 (REACH)
Printed 16.04.2019

Revision 16.04.2019 (GB) Version 4.1

EC 25

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

1.1. Product identifier

Name of product EC 25

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

Identified uses

Sector of uses [SU]

SU20 - Health services

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

! Product categories [PC]

PC35 - Washing and cleaning products (including solvent based products)

! Process categories [PROC]

PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC13 - Treatment of articles by dipping and pouring

! Environmental release categories [ERC]

ERC8a - Wide dispersive indoor use of processing aids in open systems

Recommended intended purpose(s)

Cleaning solution, ready for use, for the removal of alginates and dental plasters.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor Elma Schmidbauer GmbH

Gottlieb-Daimler-Str. 17, D-78224 Singen (Htwl.) Phone +49 7731 882-0, Fax +49 7731 882-266

E-Mail info@elma-ultrasonic.com Internet www.elma-ultrasonic.com

Advice Chemie/Labor: Email: chemlab@elma-ultrasonic.com

1.4. Emergency telephone number

Emergency advice Vergiftungs-Informations-Zentrale Freiburg

(Sprache/Language: D, GB) Phone +49 761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard

categories

Hazard Statements Classification procedure

Eye Irrit. 2

H319

Expert judgement and weight of evidence determination.

Hazard Statements

H319 Causes serious eye irritation.

2.2. Label elements



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



GHS07

Signal word

Warning

Hazard Statements

H319 Causes serious eye irritation.

Precautionary Statements

P102 Keep out of reach of children.

P280 Wear eye protection.

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

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P338 present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

not relevant

Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

SECTION 3: Composition/information on ingredients

1-methoxy-2-propanol

n-propanol

3.1. Substances

not applicable

3.2. Mixtures

Description

107-98-2

71-23-8

Aqueous, mildly alkaline mixture with complexing agent, anionic surfactants and cosolvent.

Hazardous ingredients

| CAS No | EC No | Name | Concent ration | Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS] |
|----------|-----------|----------------------|-------------------|---|
| 107-98-2 | 203-539-1 | 1-methoxy-2-propanol | 5 - 10 | Flam. Liq. 3, H226 / STOT SE 3, H336 |
| 71-23-8 | 200-746-9 | n-propanol | 5 - 10 | Flam. Liq. 2, H225 / Eye Dam. 1, H318 / STOT SE 3, H336 |
| REACH | | | | |
| CAS No | Name | | | REACH registration number |

01-2119457435-35

01-2119486761-29



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

In case of skin contact

In case of contact with skin wash off with warm water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Medical treatment.

If swallowed seek medical advice immediately and show the doctor packing or label.

Rinse out mouth and give plenty of water to drink.

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

Physician's information / possible symptoms

No further informations available.

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

Treatment (Advice to doctor)

No further informations available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

water

Alcohol-resistant foam

Dry powder

Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection.

For emergency responders

Use personal protective clothing.

Use personal protection.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.



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6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Flush away residues with hot water.

6.4. Reference to other sections

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

! SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation.

Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Hygiene measures

Provide washing facilities at place of work.

Keep away from food and drink.

Advice on protection against fire and explosion

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original container.

Advice on storage compatibility

Do not store with oxidizing agents.

Further information on storage conditions

Keep container tightly closed.

Keep locked up, out of reach of children

Protect from heat and direct solar radiation.

Do not keep at temperatures below 5 °C.

Do not keep at temperatures above 35 ℃.

Information on storage stability

Storage time: 5 years.

7.3. Specific end use(s)

! Recommendation(s) for intended use

see section 8.

no further

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

| CAS No | Name | Code | [mg/m3] | [ppm] | Remark |
|----------|----------------------|----------------------------|------------|------------|-------------------|
| 107-98-2 | 1-methoxypropan-2-ol | TWA, 8 hours Short-term | 375 560 | 100 150 | Sk, R10 |
| 71-23-8 | propan-1-ol | WEL, 8 hours | 500 | 200 | Sk, R11-41- 67 |



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| Indicative occupational exposure limit values | (91/322/EEC. | 2000/39/EC. | 2004/37/EC | . 2006/15/EC | or 2009/161/EU) |
|---|--------------|-------------|------------|--------------|-----------------|
| | | | | | |

| CAS No | Name | Code | [mg/m3] | [ppm] | Remark |
|-------------------|----------------------|------------|---------|-------|--------|
| 107-98-2 | 1-methoxy-2-propanol | 8 hours | 375 | 100 | skin |
| | | Short-term | 568 | 150 | |
| DNEL-/PNEC-values | | | | | |

DNEL worker

| CAS No | Substance name | Value | Code | Remark |
|----------|----------------------|----------------------|--------------------------------------|--------|
| 107-98-2 | 1-methoxy-2-propanol | 50,6 mg/kg bw/day | DNEL long-term dermal (systemic) | |
| | | 369 mg/m3 | DNEL long-term inhalative (systemic) | |
| 71-23-8 | n-propanol | 136 mg/kg bw/day | DNEL long-term dermal (systemic) | |
| | | 268 mg/m3 | DNEL long-term inhalative (systemic) | |

PNEC

| CAS No | Substance name | Value | Code | Remark |
|----------|----------------------|----------|---------------------------------|--------|
| 107-98-2 | 1-methoxy-2-propanol | 10 mg/l | PNEC aquatic, freshwater | |
| | | 100 mg/l | PNEC sewage treatment plant (ST | P) |
| 71-23-8 | n-propanol | 96 mg/l | PNEC sewage treatment plant (ST | P) |
| | | 10 mg/l | PNEC aquatic, freshwater | |

Additional advice

8.2. Exposure controls

Eye protection

safety goggles

Limitation and surveillance of the environment

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

! Appropriate engineering controls

Technical exhaustion if there is a long-term exposition

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Colour Odour liquid yellowish alcoholic

Odour threshold

1-methoxy-2-propanol: 38 - 360 mg/m3 (10 - 96 ppm). 1-propanol: 0.075 - 150 mg/m3 (0.03 - 60 ppm).

Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|----------|----------|-------------|----|--------|--------|
| pH value | ca. 11,7 | 20 ℃ | | | |



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| | Value | Temperature | at | Method | Remark |
|---|----------------|-------------|----|------------------|--|
| starts to boil | >= 90 °C | | | | |
| solidifying point | <= 0 °C | | | | |
| Flash point | 38,5 ℃ | | | DIN EN ISO 13736 | Does not maintain the combustion. |
| Flammable (solid) | not applicable | | | | |
| Flammability (gas) | not applicable | | | | |
| Ignition temperature | not determined | | | | |
| Self ignition temperature | | | | | not spontaneous flammable |
| Lower explosion limit | 1,5 Vol-% | | | | Value of 1- methoxy-2- propanol. |
| Upper explosion limit | 13,7 Vol-% | | | | Value of 1- methoxy-2- propanol. |
| Vapour pressure | 23 - 56 hPa | 20 ℃ | | | |
| Relative density | 1,098 g/cm3 | 20 ℃ | | | |
| Vapour density | 3,11 | | | | Value of 1- methoxy-2- propanol. |
| Solubility in water | | | | | miscible |
| Solubility/other | not determined | | | | |
| Partition coefficient n- octanol/water (log P O/W) | 0,34 | | | | Value of 1- propanol. |
| Decomposition temperature | >= 90 °C | | | | |
| Viscosity | not determined | | | | |
| Solvent content | < 15 % | | | | |

1-methoxy-2-propanol: 0.75 (ASTM D3539).

Water: 0.36 (ASTM D3539).

1-propanol: 0.89 (ASTM D3539) / 16 (DIN 53170) .

Oxidising properties



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Explosive properties

no

9.2. Other information

No further relevant informations available.

! SECTION 10: Stability and reactivity

10.1. Reactivity

Evolution of heat under influence of acids.

No further hazardous reactions known if used as directed.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with strong oxidising agents.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

Substances to avoid

Reactions with strong oxidising agents.

10.6. Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

| | Value/Validation | Species | Method | Remark |
|-----------------------|---------------------|---------|-------------------------------|---------|
| LD50 acute oral | > 5000 mg/kg | rat | calculated | |
| LD50 acute dermal | > 5000 mg/kg | | ATE (acute toxicity estimate) | |
| LC50 acute inhalation | > 50 mg/l () | | ATE (acute toxicity estimate) | vapours |
| Skin irritation | low irritant effect | | | |
| Eye irritation | irritant | | | |
| Skin sensitization | non-sensitizing | | | |

Specific target organ toxicity (single exposure)

The mixture is not classified as specific target organ toxicant (single exposure).

Specific target organ toxicity (repeated exposure)

The mixture is not classified as specific target organ toxicant (repeated exposure).



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Aspiration hazard

The mixture is not classified as aspiration hazardous.

Toxicity test (Additional information)

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

Experiences made from practice

Has a degreasing effect on the skin.

!SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

| Loctoxicolo | Value | Species | Method | Validation |
|--|-----------------|--------------|------------------------------------|--------------------|
| Fish | LC50 > 150 mg/l | | calculated | |
| Daphnia | EC50 > 200 mg/l | | calculated | |
| Algae | EC50 150 mg/l | | calculated | |
| 12.2. Persist Physico-che degradabilit | | | Neutralization, pH- measurement | |
| Biological | > 90 % | DOC decrease | calculated | readily degradable |

degradability

12.3. Bioaccumulative potential

1-methoxy-2-propanol: Accumulation in organisms is not expected.

1-propanol: Accumulation in organisms is not expected (log Pow: 0.34).

12.4. Mobility in soil

1-methoxy-2-propanol: Dissolves in water. Highly mobile in soil.

1-propanol: Adsorption on soil is not expected.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

12.6. Other adverse effects

No further relevant informations available.

Additional ecological information

| Additional ecological ini | Value | Method | Remark | |
|---------------------------|--|------------|--------|--|
| COD | 380 mgO2/g | calculated | | |
| AOX | The product does not contain any organically bound halogens according to the recipe. | | | |

General regulation

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.

The mixture is not classified as acute/chronic hazardous to the aquatic environment.

Do not allow uncontrolled leakage of product into the environment.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No. Name of waste

07 06 01* aqueous washing liquids and mother liquors

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Do not dispose with household waste.

Suitable for neutralization are acetic acid or citric acid if a stainless steel bath is used.

Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent

Water

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA-DGR |
|----------------------------------|------------|------|----------|
| 14.1. UN number | - | - | - |
| 14.2. UN proper shipping name | - | - | - |
| 14.3. Transport hazard class(es) | - | - | - |
| 14.4. Packing group | - | - | - |
| 14.5. Environmental hazards | s - | - | - |

14.6. Special precautions for user

no

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

Land and inland navigation transport ADR/RID

No dangerous goods as defined by these transport regulations.

Marine transport IMDG

No hazardous material as defined by the prescriptions.

Air transport ICAO/IATA-DGR

No hazardous material as defined by the prescriptions.



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! SECTION 15: Regulatory information

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

not relevant

! Application restrictions

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 + 40 - not relevant if used as directed.

Other regulations (EU)

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: not mentioned.

VOC standard

VOC content 11,1 %

15.2. Chemical Safety Assessment

For this mixture a chemical safety assessment were not carried out.

!SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 4.0

! Sources of key data used

Own measurements.

European Chemicals Agency, http://echa.europa.eu/.

Informations from our suppliers.

| H225 | Highly flammable liquid and vapour. |
|------|-------------------------------------|
| H226 | Flammable liquid and vapour. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |