

SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

CLEAMEN 110

Date of revision: 28. 04. 2022

Version: 1.1

Replaced version from: 30. 03. 2022

Date of issue: 30. 03. 2022

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

1.1. Product identifier

Product Name

CLEAMEN 110

UFI code

UFI: CH80-W0UP-M005-9TUV

Product code

TC11002.

Mixture description

Water solution.

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

Identified uses

Liquid glass cleaner. The product is intended for washing windows, glass surfaces, door panels, display cases, tabletops and all types of mirrors by the spray method.

Consumer and professional use.

Uses advised against

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

1.3. Details of the supplier of the safety data sheet

CORMEN s.r.o.

Věchnov 73

593 01

Czech Republic

telephone: +420 566 550 961

Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: info@cormen.cz

1.4. Emergency telephone number

112 (General emergency phone).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture is classified as **hazardous** according to regulation 1272/2008/EC.

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Classification according to 1272/2008/EC

Flam. Liq. 3; H226

Eye Irrit. 2; H319

Full text of classifications and H-phrases: see section 16.

The most important adverse physical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation.

2.2. Label elements

Hazard pictograms



Signal word

Warning.

Substances of the mixture to be placed on the label

Are not.

Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.

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

P233 Keep container tightly closed.

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

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

P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Supplemental hazard information

Mandatory additional information is not required according to CLP regulation.

Composition according to regulation 648/2004/EC on detergents: < 5% anionic surfactants, non-ionic surfactants, perfumes, preservation agents (METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

2.3. Other hazards

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Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

3.2.1. Substances of a mixture classified as hazardous

| Identification of substance | Content wt. % | Classification according to 1272/2008/EC |
|--|---------------|--|
| Propan-2-ol; Isopropyl alcohol; Isopropanol | | |
| CAS Number 67-63-0 | | Flam. Liq. 2; H225 |
| EC Number 200-661-7 | ≤ 8.0 | Eye Irrit. 2; H319 |
| Index Number 603-117-00-0 | | STOT SE 3; H336 |
| Registration Number 01-2119457558-25-XXXX | | |
| N,N-Dimethyldecylamine N-oxide | | |
| CAS Number 2605-79-0 | | Acute Tox. 4; H302 |
| EC Number 220-020-5 | < 0.5 | Eye Dam. 1; H318 |
| Index Number not given | | Aquatic Acute 1; H400 |
| Registration Number 01-2119959297-22-XXXX | | Aquatic Chronic 2; H411 |
| | | M=1 |

Full text of classifications and H-phrases: see section 16.

SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

4.1. Description of first aid measures

Inhalation

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

Skin contact

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. If pain or redness persists, seek medical advice.

Ingestion

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Are not known.

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

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Small fire:

Carbon dioxide CO₂, dry extinguishing agent, sand or earth, alcohol-resistant foam.

Extensive fire:

Fragmented water streams (water mist), alcohol-resistant foam.

Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.2. Special hazards arising from the substance or mixture

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, nitrogen oxides, ammonia and products of incomplete combustion.

5.3. Advice for firefighters

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. At the point of leakage, prevent the movement of unauthorized persons.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

6.3. Methods and material for containment and cleaning up

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

6.4. Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see. Section 8. Ensure good ventilation. Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at temperature 5 - 25 °C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

7.3. Specific end use(s)

See subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

Not determined.

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Propan-2-ol

CAS: 67-63-0

DNEL

| Area of use | Route of exposure | Effect | Exposure time | Value |
|--------------------|-------------------|-----------------|---------------|-----------------------|
| Workers | Inhalation | Systemic effect | Long term | 500 mg/m ³ |
| Workers | Dermal | Systemic effect | Long term | 888 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 89 mg/m ³ |
| General population | Dermal | Systemic effect | Long term | 319 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 26 mg/kg/day |

PNEC

| Fresh water | Marine water | Intermittent releases | | Sewage Treatment Plant (STP) |
|-------------|--------------|-----------------------|--------------|------------------------------|
| | | Fresh water | Marine water | |
| 140.9 mg/l | 140.9 mg/l | 140.9 mg/l | not given | 2 251 mg/l |

PNEC

| Sediment (freshwater) | Sediment (marine water) | Air | Soil | Hazard for predators |
|-----------------------|-------------------------|-----------|----------|----------------------|
| 552 mg/kg | 552 mg/kg | not given | 28 mg/kg | 160 mg/kg food |

N,N-Dimethyldecylamine N-oxide

CAS: 2605-79-0

DNEL

| Area of use | Route of exposure | Effect | Exposure time | Value |
|-------------|-------------------|--------|---------------|-------|
|-------------|-------------------|--------|---------------|-------|

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| | | | | |
|--------------------|------------|-----------------|-----------|------------------------|
| Workers | Inhalation | Systemic effect | Long term | 6.2 mg/m ³ |
| Workers | Dermal | Systemic effect | Long term | 11 mg/kg/day |
| General population | Inhalation | Systemic effect | Long term | 1.53 mg/m ³ |
| General population | Dermal | Systemic effect | Long term | 5.5 mg/kg/day |
| General population | Oral | Systemic effect | Long term | 0.44 mg/kg/day |

PNEC

| Fresh water | Marine water | Intermittent releases | | Sewage Treatment Plant (STP) |
|-------------|--------------|-----------------------|--------------|------------------------------|
| | | Fresh water | Marine water | |
| 0.034 mg/l | 0.003 mg/l | 0.034 mg/l | 0.003 mg/l | 4.59 mg/l |

PNEC

| Sediment (freshwater) | Sediment (marine water) | Air | Soil | Hazard for predators |
|-----------------------|-------------------------|-----------|------------|----------------------|
| 5.24 mg/kg | 0.524 mg/kg | no effect | 1.02 mg/kg | 11.1 mg/kg food |

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

8.2.2. Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

Eye/face protection

Wear safety goggles or face shield when manufacturing and handling the product. They are not necessary when used by the consumer.

Skin protection - hand protection

Wear protective gloves when manufacturing and handling the product. They are not necessary when used by the consumer.

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

Skin protection - other

In normal use is not necessary, in case of prolonged contact with the product, wear protective work clothes and shoes.

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator). In the event of an accident or a fire use self-contained breathing apparatus.

Thermal hazards

In normal use is not necessary protective equipment to be worn for materials that represent a thermal hazard.

8.2.3. Environmental exposure controls

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Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Mixture

| | |
|---|---|
| Physical state | Liquid. |
| Colour | Light blue. |
| Odour | Characteristic. |
| Melting point/freezing point | Not determined. |
| Boiling point or initial boiling point and boiling range | 82 °C. |
| Flammability | The mixture is classified as flammable liquid according to the value of the flash point. |
| Lower explosion limit | Not determined for the mixture, values are given for substances classified as flammable liquids. |
| Upper explosion limit | Not determined for the mixture, values are given for substances classified as flammable liquids. |
| Flash point | 46 °C. |
| Auto-ignition temperature | Not determined. |
| Decomposition temperature | Not determined, the mixture does not contain self-reactive substances or organic peroxides. |
| pH | 8 - 9 (20 °C). |
| Kinematic viscosity | Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %. |
| Solubility | Complete miscible. |
| Partition coefficient n-octanol/water (log value) | Does not apply to mixture. |
| Vapour pressure | 23 hPa. |
| Density and/or relative density | $D_4^{22} = 1.020$. |
| Relative vapour density | Not determined. |
| Particle characteristics | Does not apply to liquid. |

Propan-2-ol

CAS: 67-63-0

| | |
|---|--------------------------|
| Physical state | Liquid. |
| Colour | Colourless. |
| Odour | Not determined. |
| Melting point/freezing point | -88.5 °C (literature). |
| Boiling point or initial boiling point and boiling range | 82.3 °C (literature). |
| Flammability | Highly flammable liquid. |

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| | |
|---|---|
| Lower explosion limit | 2 vol. % (literature). |
| Upper explosion limit | 13 vol. % (literature). |
| Flash point | 11.7 °C (literature). |
| Auto-ignition temperature | 399 - 455.6 °C (literature). |
| Decomposition temperature | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| pH | Not determined. |
| Kinematic viscosity | Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon. |
| Solubility | Miscible with water. |
| Partition coefficient n-octanol/water (log value) | log Pow = 0.05 (25 °C, literature). |
| Vapour pressure | Not determined. |
| Density and/or relative density | 785.5 kg/m ³ (20 °C, literature). |
| Relative vapour density | Not determined. |
| Particle characteristics | Does not apply to liquid. |
| N,N-Dimethyldecylamine N-oxide CAS: 2605-79-0 | |
| Physical state | Solid. |
| Colour | White. |
| Odour | Not determined. |
| Melting point/freezing point | 133 -136 °C (literature). |
| Boiling point or initial boiling point and boiling range | Not determined. |
| Flammability | The substance is not classified as flammable (EU method A.10). |
| Lower explosion limit | Does not apply to solid. |
| Upper explosion limit | Does not apply to solid. |
| Flash point | Does not apply to solid. |
| Auto-ignition temperature | Does not apply to solid. |
| Decomposition temperature | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| pH | Not determined. |
| Kinematic viscosity | Does not apply to solid. |
| Solubility | 409.5 g/l. |
| Partition coefficient n-octanol/water (log value) | log Pow = 0.95 (calculation) |
| Vapour pressure | 0 Pa (25 °C, calculation) |
| Density and/or relative density | D ₄ ²³ = 0.716 (EU method A.3). |
| Relative vapour density | Does not apply to solid. |

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Particle characteristics

Not determined.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Mixture

Explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The mixture is classified as flammable liquid category 3 according to the value of the flash point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the mixture are not available.

The mixture does not contain substances classified as self-reactive substances or explosives or organic peroxides or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Pyrophoric liquids

Data for the mixture are not available.

The mixture does not contain substances classified as pyrophoric liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the mixture are not available.

The mixture does not contain substances classified as self-heating or pyrophoric substances or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Substances and mixtures, which emit flammable gases in contact with water

Data for the mixture are not available.

The mixture does not contain substances classified as substances, which emit flammable gases in contact with water or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Oxidising liquids

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Data for the mixture are not available.

The mixture does not contain substances classified as oxidising liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the mixture are not available.

The mixture does not contain substances classified as organic peroxides or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Corrosive to metals

Data for the mixture are not available.

The mixture does not contain substances classified as corrosive to metals or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Desensitised explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or desensitised explosives, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Propan-2-ol

CAS: 67-63-0

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is classified as flammable liquid category 2 according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

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Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

N,N-Dimethyldecylamine N-oxide

CAS: 2605-79-0

Explosives

Data for the substance are not available.

The substance contains chemical groups associated with explosive properties, but the calculated oxygen balance is less than -200.

Calculated oxygen balance = - 290.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

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It is not liquid.

Flammable solids

The substance is not classified as flammable solid (EU method A.10).

Self-reactive substances and mixtures

Data for the substance are not available.

The substance is not classified as self-reactive.

Pyrophoric liquids

It is not liquid.

Pyrophoric solids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is soluble in water and forms a stable mixture with it.

Oxidising liquids

It is not liquid.

Oxidizing solids

Data for the substance are not available.

It is an organic substance does not contain chemical groups associated with oxidising properties.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

The substance is not classified as explosive or desensitised explosive.

9.2.2. Other safety characteristics

Mechanical sensitivity

Not determined, it is not an explosive substance.

Self-accelerating polymerisation temperature

Not determined, it is not a polymerising substance.

Formation of explosible dust/air mixtures

Not determined, it is not a dust.

Acid/alkaline reserve

Not determined, pH is in the range 4 - 10.

Evaporation rate

Not determined.

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| | |
|------------------------------------|--------------------------------|
| Miscibility | Not determined. |
| Conductivity | Not determined. |
| Corrosiveness | Not determined. |
| Gas group | Not determined, it is not gas. |
| Redox potential | Not determined. |
| Radical formation potential | Not determined. |
| Photocatalytic properties | Not determined. |

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions aren't known under normal conditions of use.

10.4. Conditions to avoid

Protect from frost.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

They do not form under normal use. Burning releases carbon oxides, nitrogen oxides, ammonia and products of incomplete combustion.

SECTION 11: Toxicological information

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

Mixture

Acute toxicity

The mixture is not classified as toxic for all routes of exposure.

Oral

Data for the mixture are not available.

ATE_{mixture} > 2 000 mg/kg (estimate, low concentration of substance classified as toxic oral route of exposure).

Dermal

Data for the mixture are not available.

The mixture does not contain substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Inhalation

Data for the mixture are not available.

The mixture does not contain substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

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Skin corrosion/irritation

Data for the mixture are not available.

The mixture does not contain substances classified as hazardous to skin or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Serious eye damage/irritation

Data for the mixture are not available.

The mixture is classified as eye irritant based on the general/specific concentration limits of substance(s).

Respiratory or skin sensitisation

Data for the mixture are not available.

The mixture does not contain substances classified as sensitizing or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Germ cell mutagenicity

Data for the mixture are not available.

The mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Carcinogenicity

Data for the mixture are not available.

The mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Reproductive toxicity

Data for the mixture are not available.

The mixture does not contain substances classified as toxic for reproduction or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

STOT – single exposure

Data for the mixture are not available.

The mixture is not classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s).

STOT – repeated exposure

Data for the mixture are not available.

The mixture does not contain substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Aspiration hazard

Data for the mixture are not available.

The mixture does not contain substances classified as aspiration hazard or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Other information

See section 2 and 4.

Propan-2-ol

CAS: 67-63-0

Acute toxicity

Oral

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

LD₅₀ = 5 840 mg/kg (rat, OECD 401).

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Dermal Based on available data, the classification criteria are not met.
LD₅₀ = 16.4 ml/kg (12 792 mg/kg at a density of 0.78 g/cm³, rabbit, OECD 402).

Inhalation Based on available data, the classification criteria are not met.
LC₅₀ > 10 000 ppm (vapour, 6 h, OECD 403).

Skin corrosion/irritation

Based on available data, the classification criteria are not met.
Mean erythema score = 0 and oedema = 0 (rabbit, OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant.
Total mean irritation score = 1.89 (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.
Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

Based on available data, the classification criteria are not met.
Negative (OECD 471, OECD 476).

Carcinogenicity

Based on available data, the classification criteria are not met.
NOAEL = 5 000 ppm (testicular tumors, rat, male, vapour, OECD 451).

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL = 853 mg/kg/day (rat, oral, generation P0, OECD 415).

STOT – single exposure

The substance may cause drowsiness or dizziness.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOEC = 500 ppm (specific toxic effect, rat, vapour, 104 weeks, OECD 451).
NOAEC = 5 000 ppm (specific exposure-related adverse reaction, rat, vapour, 104 weeks, OECD 451).
NOEC = 5 000 ppm (effects of oncogenicity, rat, vapour, 104 weeks, OECD 451).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

N,N-Dimethyldecylamine N-oxide

CAS: 2605-79-0

Acute toxicity

Oral The substance is classified in category 4.
LD₅₀ > 300 - < 2 000 mg/kg (rat, female).
ATE = 500 mg/kg (for calculation by additive formula).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 2 000 mg/kg (rat).

Inhalation Data for the substance are not available.

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Skin corrosion/irritation

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

Mean erythema score = 1 (fully reversible after 7 days) and oedema = 0 (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance classified as seriously damaging to the eyes.

Mean irritation score = 16.3 (chicken, Hen's Egg Test - Chorioallantoic Membrane (HET-CAM) Test Method).

Respiratory or skin sensitisation

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

Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

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

Negative (OECD 471, EU method B.17, OECD 487).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = 40 mg/kg/day (rat, oral, generation P0, OECD 422).

NOAEL = 100 mg/kg/day (rat, oral, generation F1, OECD 422).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 88 mg/kg/day (rat, oral, 90 days, OECD 408).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

11.2. Information on other hazards

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation.

Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

SECTION 12: Ecological information

12.1. Toxicity

Mixture

Data for the mixture are not available.

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| | | | | |
|--|---|----------------|----------------|-------|
| Acute aquatic toxicity | | | | |
| The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method. | | | | |
| category 1 | | $\Sigma < 0.5$ | | |
| Chronic aquatic toxicity | | | | |
| The mixture is not classified as chronic aquatic toxicity based on calculation according to the summation method. | | | | |
| category | 1 | 2 | 3 | 4 |
| Σ | 0 | < 0.5 | < 5 | < 0.5 |
| Propan-2-ol | | | CAS: 67-63-0 | |
| The substance is not classified as hazardous for the aquatic environment. | | | | |
| Fish | | | | |
| LC ₅₀ , 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203) | | | | |
| Crustaceans | | | | |
| EC ₅₀ , 24 hrs., Daphnia Magna: > 10 000 mg/l (mobility, OECD 202) logNOEC, 16 d., Daphnia Magna: 3.37 (growth, NOEC = 2 344 µmol/l = 140.9 mg/l) | | | | |
| Algae | | | | |
| Threshold toxicity, 7 d., Scenedesmus quadricauda: 1.800 mg/l | | | | |
| N,N-Dimethyldecylamine N-oxide | | | CAS: 2605-79-0 | |
| The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 2; H411. | | | | |
| Fish | | | | |
| LC ₅₀ , 96 hrs., Danio rerio: 31.8 mg/l (mortality). NOEC, 15 d., Pimephales promelas: 0.495 mg/l (survival and mean length). | | | | |
| Crustaceans | | | | |
| EC ₅₀ , 48 hrs., Daphnia Magna: 2.9 mg/l (mobility). NOEC, 21 d., Daphnia Magna: 0.7 mg/l. | | | | |
| Algae | | | | |
| EC ₅₀ , 72 hrs, Pseudokirchneriella subcapitata: 0.205 mg/l (biomass). EC ₅₀ , 72 hrs, Pseudokirchneriella subcapitata: 0.266 mg/l (growth rate). NOEC, 72 hrs, Pseudokirchneriella subcapitata: 0.078 mg/l (growth rate). | | | | |
| 12.2. Persistence and degradability | | | | |
| Mixture | | | | |
| Data for the mixture are not available. | | | | |
| Propan-2-ol | | | CAS: 67-63-0 | |
| Readily biodegradable: 53 % after 5 days (CO ₂ evolution, OECD 301 B). | | | | |
| N,N-Dimethyldecylamine N-oxide | | | CAS: 2605-79-0 | |
| Readily biodegradable: 97 % after 28 days (removal of dissolved organic carbon, OECD 301 E). | | | | |
| 12.3. Bioaccumulative potential | | | | |

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| | |
|---|----------------|
| Mixture | |
| Data for the mixture are not available. | |
| Propan-2-ol | CAS: 67-63-0 |
| log Pow = 0.05 (25 °C). | |
| N,N-Dimethyldecylamine N-oxide | CAS: 2605-79-0 |
| log Pow = 0.95 (calculation). | |
| 12.4. Mobility in soil | |
| Mixture | |
| Data for the mixture are not available. | |
| Propan-2-ol | CAS: 67-63-0 |
| Data for the substance are not available. | |
| N,N-Dimethyldecylamine N-oxide | CAS: 2605-79-0 |
| Koc = 307 - > 2 113 (by kind of soil, 23.6 °C). | |
| 12.5. Results of PBT and vPvB assessment | |
| Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH Regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. | |
| 12.6. Endocrine disrupting properties | |
| The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. | |
| 12.7. Other adverse effects | |
| Data are not available. | |
| SECTION 13: Disposal considerations | |
| 13.1. Waste treatment methods | |
| Disposal methods of the substance or mixture and the contaminated packaging | |
| Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. | |
| Possible waste code | |
| 07 06 01* - aqueous washing liquids and mother liquors or 20 01 29* detergents containing hazardous substances, 15 01 10* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging). | |
| Physical/chemical properties that may affect waste treatment options | |

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Flammability.

Special precautions recommended for waste management

Not known.

Waste legislation

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1987

14.2. UN proper shipping name

ALCOHOLS, N.O.S. (Propan-2-ol).

14.3. Transport hazard class(es)

3

14.4. Packing group

III

14.5. Environmental hazards

It is not dangerous for the environment during transport.

14.6. Special precautions for user

Not given.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

14.8. Other information

Labeling according to ADR



Additional data for ADR/RID

| | |
|----------------------------|---|
| Classification code | F1 |
| Labels | 3 |
| Hazard identification code | 30 |
| Tunnel restriction code | D/E (ADR), - (RID) |
| Limited quantities | 5I |
| Excepted quantities | Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 1 000 ml. |

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Transport category 3

Additional data for IMDG

Emergency Schedules (EmS) F-E, S-D.

SECTION 15: Regulatory information

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

Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

Regulation No. 648/2004/EC on detergents, as amended

15.2. Chemical safety assessment

Has not been carried out for mixture.

SECTION 16: Other information

Reason for the revision of the safety data sheet

Change of pH value in section 9.

Key or legend to abbreviations and acronyms

| | |
|-------------------|--|
| Acute Tox. 4 | Acute toxicity, cat. 4 |
| Aquatic Acute 1 | Acute aquatic hazard, cat. 1 |
| Aquatic Chronic 2 | Chronic aquatic hazard, cat. 2 |
| Eye Dam. 1 | Serious eye damage, cat. 1 |
| Eye Irrit. 2 | Eye irritation, cat. 2 |
| Flam. Liq. 2 | Flammable liquid, cat. 2 |
| Flam. Liq. 3 | Flammable liquid, cat. 3 |
| STOT SE 3 | Specific target organ toxicity - single exposure, cat. 3 |
| M | Multiplying factor |
| ADR | Accord Dangereuses Route |
| CLP | Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures |
| DNEL | Derived No Effect Level |
| ICAO/IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| PBT | Persistent, bioaccumulative, toxic substance |
| PNEC | Predicted No Effect Concentration |
| REACH | Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulation concerning the International Carriage of Dangerous Goods by Rail |
| STOT | Specific target organ toxicity |

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vPvB Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

European legislation, manufacturer's safety data sheet, registration dossier of substances.

List of H- and P- phrases

| | |
|----------------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P501 | Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

Training advice

According to SDS.

Other information

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is created in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

The safety data sheet was created by company LACHEPRA s.r.o.