

SAFETY DATA SHEET

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

KRYSTAL Polish for furniture

Date of revision: 07. 02. 2022

Version: 5.0

Replaced version from: 02. 11. 2015

Date of issue: 18. 10. 2012

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

1.1. Product identifier

Product Name

KRYSTAL Polish for furniture

UFI code

UFI: 6PF0-C0J8-N00T-XDTH

Product code

None

Mixture description

Water solution.

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

Identified uses

Liquid cleaning and polishing agent for cleaning all types of furniture.
Consumer 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.

Classification according to 1272/2008/EC

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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.

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

EUH208 - Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Composition according to regulation 648/2004/EC on detergents: < 5% non-ionic surfactants, perfumes, BUTYLPHENYL METHYLPROPIONAL, 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 Eye Irrit. 2; H319 STOT SE 3; H336 |
| EC Number | 200-661-7 | |
| Index Number | 603-117-00-0 | |
| Registration Number | 01-2119457558-25-XXXX | |
| Alcohols, C12-14, (even numbered) ethoxylated | | |
| CAS Number | 68439-50-9 | Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 |
| EC Number | not given | |
| Index Number | not given | |
| Registration Number | polymer, not subject to registration | |
| The substance has specific concentration limits: | | |
| Eye Dam. 1; H318 | $C \geq 10 \%$ | |
| Eye Irrit. 2; H319 | $1 \% < C < 10 \%$ | |
| Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | |
| CAS Number | 55965-84-9 | Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M=100 M(Chronic)=100 |
| EC Number | not given | |
| Index Number | 613-167-00-5 | |
| Registration Number | not yet available | |
| | < 0.0015 | |
| The substance has specific concentration limits: | | |
| Skin Corr. 1C; H314 | $C \geq 0.6 \%$ | |
| Eye Dam. 1; H318 | $C \geq 0.6 \%$ | |
| Skin Irrit. 2; H315 | $0.06 \% \leq C < 0.6 \%$ | |

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| | |
|---------------------|--------------------|
| Eye Irrit. 2; H319 | 0.06 % ≤ C < 0.6 % |
| Skin Sens. 1A; H317 | C ≥ 0.0015 % |

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.

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, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride, chlorine and products of incomplete combustion.

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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

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 room temperature.

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)

Cleaning and polishing all types of furniture. Removes dirt, dirty feet and gives a high gloss surface.

Product spray directly on the cleaned surface, can act and polish.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

Not determined.

8.1.2. Biological limit values

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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 |

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

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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

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 | Colourless. |
| Odour | Characteristic. |
| Melting point/freezing point | Not determined. |
| Boiling point or initial boiling point and boiling range | 100 °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 | 32 °C. |
| Auto-ignition temperature | Not determined. |
| Decomposition temperature | Not determined, the mixture does not contain self-reactive substances or organic peroxides. |
| pH | 5 (25 °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 | 43 hPa. |
| Density and/or relative density | 1.0 g/cm ³ (20 °C). |
| Relative vapour density | Not determined. |
| Particle characteristics | Does not apply to liquid. |

Propan-2-ol

CAS: 67-63-0

| | |
|-----------------------|-------------|
| Physical state | Liquid. |
| Colour | Colourless. |

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| | |
|--|---|
| 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. |
| 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. |
| Alcohols, C12-14, (even numbered) ethoxylated CAS: 68439-50-9 | |
| Physical state | Liquid. |
| Colour | Colourless to yellowish. |
| Odour | Alcoholic. |
| Melting point/freezing point | 16 °C. |
| Boiling point or initial boiling point and boiling range | > 250 °C. |
| Flammability | The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions. |
| Lower explosion limit | Not determined. |
| Upper explosion limit | Not determined. |
| Flash point | 125 °C. |
| Auto-ignition temperature | Not determined. |
| Decomposition temperature | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| pH | 5.0 - 7.0 (1% solution, 20 °C). |

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| | |
|--|---|
| Kinematic viscosity | Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon. |
| Solubility | Not determined. |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure | Not determined. |
| Density and/or relative density | 0.98 g/cm ³ (20 °C). |
| Relative vapour density | Not determined. |
| Particle characteristics | Does not apply to liquid. |

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

Data for the mixture are not available.

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

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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

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.

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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.

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.

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. |
| Miscibility | Not determined. |

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| | |
|------------------------------------|--------------------------------|
| 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

Burning releases carbon oxides, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride, chlorine 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.

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

Inhalation

Data for the mixture are not available.

ATE_{mixture} > 20 mg/l (estimate, low concentration of substance classified as toxic inhalation route of exposure).

Skin corrosion/irritation

Data for the mixture are not available.

The mixture is not classified as skin irritant based on the general/specific concentration limits of substance(s).

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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 is not classified as a skin sensitizing according to the general/specific concentration limits of substance(s).

EUH208 - Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

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).

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).

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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.

Alcohols, C12-14, (even numbered) ethoxylated

CAS: 68439-50-9

Acute toxicity

Oral The substance is classified in category 4.
LD₅₀ = 300 - 2 000 mg/kg (rat).
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 (rabbit).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

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Data for the substance are not available.

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Respiratory or skin sensitisation

Data for the substance are not available.

Germ cell mutagenicity

Data for the substance are not available.

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Data for the substance are not available.

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.

Acute aquatic toxicity

The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.

category 1

$\Sigma < 0.15$

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

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| Σ | < 0.15 | < 1.5 | < 16 | < 1.0015 |
|--|--------|-------|------|-----------------|
| 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 | | | | |
| Alcohols, C12-14, (even numbered) ethoxylated | | | | CAS: 68439-50-9 |
| The substance is classified as Aquatic Chronic 3; H412. | | | | |
| Fish | | | | |
| Data for the substance are not available. | | | | |
| Crustaceans | | | | |
| EC ₅₀ , 48 hrs., Daphnia Magna: > 1 mg/l. | | | | |
| Algae | | | | |
| EC ₅₀ , 72 hrs., Desmodesmus subspicatus: > 1 mg/l. | | | | |
| 12.2. Persistence and degradability | | | | |
| Mixture | | | | |
| Data for the mixture are not available. The surfactants are contained in this preparation in accordance with the biodegradability criteria according to Regulation (EC) No. 648/2004 on detergents. | | | | |
| Propan-2-ol | | | | CAS: 67-63-0 |
| Readily biodegradable: 53 % after 5 days (CO ₂ evolution, OECD 301 B). | | | | |
| Alcohols, C12-14, (even numbered) ethoxylated | | | | CAS: 68439-50-9 |
| Readily biodegradable: > 60 % (OECD 301 B). | | | | |
| 12.3. Bioaccumulative potential | | | | |
| Mixture | | | | |
| Data for the mixture are not available. | | | | |
| Propan-2-ol | | | | CAS: 67-63-0 |
| log Pow = 0.05 (25 °C). | | | | |
| 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. | | | | |

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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

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

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

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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. |
| 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

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Revision of all sections according to Commission Regulation (EU) 2020/878/EC. Change of the classification and labeling of the mixture. Change in the composition of the mixture in section 3 and related changes in the other sections. The values in sections 8, 9, 11 and 12 are added according to the registration dossier of compounds.

Key or legend to abbreviations and acronyms

| | |
|-------------------|--|
| Acute Tox. 2 | Acute toxicity, cat. 2 |
| Acute Tox. 3 | Acute toxicity, cat. 3 |
| Acute Tox. 4 | Acute toxicity, cat. 4 |
| Aquatic Acute 1 | Acute aquatic hazard, cat. 1 |
| Aquatic Chronic 1 | Chronic aquatic hazard, cat. 1 |
| Aquatic Chronic 3 | Chronic aquatic hazard, cat. 3 |
| 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 |
| Skin Corr. 1C | Skin corrosion, cat. 1C |
| Skin Irrit. 2 | Skin irritation, cat. 2 |
| Skin Sens. 1A | Skin sensitization, cat. 1A |
| 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 |
| 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

| | |
|--------|-------------------------------------|
| EUH071 | Corrosive to the respiratory tract. |
| H225 | Highly flammable liquid and vapour. |

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| | |
|----------------|---|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful 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. |
| 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.