

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)



Ecoclean Gluoff-

Version 3

Date of compilation: 17/12/2024

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: Ecoclean Gluoff
UFI: OKS6-3A5V-YTKH-WPHT

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

Adhesive and glue remover.

Uses advised against:

For professional use only.

1.3 Details of the supplier of the safety data sheet.

Company: **IGL Coatings**
Address: No. 7, Jalan Majistret U1/26, Hicom-Glenmarie Industrial Park, Seksyen U1
City: 40150 - Shah Alam
Province: Selangor
Telephone: +0355690980
E-mail: regulations@iglcoatings.com
Web: <https://iglcoatings.com/>

1.4 Emergency telephone number: (Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008:

Eye Dam. 1 : Causes serious eye damage.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:



Signal Word:

Danger

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

2.3 Other hazards.

The mixture does not contain substances classified as PBT.

The mixture does not contain substances classified as vPvB.

The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

| Identifiers | Name | Concentrate | (*)Classification - Regulation (EC) No 1272/2008 | |
|--|--|-------------|---|---|
| | | | Classification | Specifics concentration limits and Acute toxicity estimate |
| CAS No: 7732-18-5 EC No: 231-791-2 | water | 75 - 100 % | - | - |
| CAS No: 68439-46-3 EC No: 614-482-0 | Alcohols,C9-11, ethoxylated | 3 - 10 % | Acute Tox. 4, H302 - Eye Dam. 1, H318 | - |
| CAS No: Proprietary EC No: Proprietary Index No: Proprietary | [1] Proprietary | 1 - 10 % | Acute Tox. 3, H331 - Acute Tox. 4, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 | Inhalation: ETA = 3 mg/l (ATP 18) Oral: ETA = 1200 mg/kg pc (ATP 18) |
| CAS No: 67-63-0 EC No: 200-661-7 Index No: 603-117-00-0 | propan-2-ol, isopropyl alcohol, isopropanol | 1 - 10 % | Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336 | - |
| CAS No: 497-19-8 EC No: 207-838-8 Index No: 011-005-00-2 | sodium carbonate | 0 - 10 % | Eye Irrit. 2, H319 | - |
| CAS No: 147170-44-3 EC No: 604-575-4 | 1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N- (C8-18 and C18-unsatd. acyl) derivs., inner salts | 0 - 1 % | Aquatic Chronic 3, H412 - Eye Dam. 1, H318 | - |
| CAS No: 102-76-1 EC No: 203-051-9 | Triacetine | 0 - 2.5 % | - | - |
| CAS No: 6834-92-0 EC No: 229-912-9 Index No: 014-010-00-8 | disodium metasilicate | 0 - 1 % | STOT SE 3, H335 - Skin Corr. 1B, H314 | - |
| CAS No: 78-70-6 EC No: 201-134-4 Index No: 603-235-00-2 | Linalool, 3,7-dimethyl- 1,6- octadien-3-ol, dl-linalool | 0 - 1 % | Skin Sens. 1B, H317 | - |
| CAS No: 10043-35-3 EC No: 233-139-2 Index No: 005-007-00-2 | boric acid | 0 - 0.3 % | Repr. 1B, H360FD | - |

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| | | | | |
|---|--|------------|---|---|
| CAS No: 1310-73-2 EC No: 215-185-5 Index No: 011-002-00-6 | sodium hydroxide, caustic soda | 0 - 0.5 % | Skin Corr. 1A, H314 | Skin Corr. 1A, H314: C ≥ 5 % Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Irrit. 2, H315: 0,5 % ≤ C < 2 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 % |
| CAS No: 7447-40-7 EC No: 231-211-8 | potassium chloride | 0 - 2.5 % | - | - |
| CAS No: 106-24-1 EC No: 203-377-1 Index No: 603-241-00-5 | geraniol, (2E)-3,7-dimethylocta2,6-dien-1-ol | 0 - 1 % | Skin Sens. 1, H317 | - |
| CAS No: 5392-40-5 EC No: 226-394-6 Index No: 605-019-00-3 | citral | 0 - 1 % | Skin Irrit. 2, H315 - Skin Sens. 1, H317 | - |
| CAS No: 106-22-9 EC No: 203-375-0 | citronellol | 0 - 1 % | Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 | - |
| CAS No: 112-31-2 EC No: 203-957-4 | Decanal | 0 - 10 % | Aquatic Chronic 3, H412 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 | - |
| CAS No: 115-95-7 EC No: 204-116-4 | Linalyl acetate | 0 - 1 % | Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1B, H317 | - |
| CAS No: 124-13-0 EC No: 204-683-8 | Octanal | 0 - 2.5 % | Aquatic Chronic 2, H411 - Eye Irrit. 2, H319 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 | - |
| CAS No: 128-37-0 EC No: 204-881-4 | 2,6-di-tert-butyl-p-cresol | 0 - 0.25 % | Aquatic Acute 1, H400 (M=1) - Aquatic Chronic 1, H410 (M=1) | - |
| CAS No: 80-26-2 EC No: 201-265-7 | alpha-Terpineol acetate | 0 - 2.5 % | Aquatic Chronic 2, H411 | - |

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a European Union exposure limit in the workplace (see section 8.1).

[2] Substance with a national workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

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Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Contact with eyes may cause irreversible damage.

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

Request immediate medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, diatomaceous earth) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

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6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 °C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

Adhesive and glue remover.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

| Name | CAS No. | Country | Limit value | ppm | mg/m ³ |
|-------------|-------------|--------------------|-------------|-----------|-------------------|
| Proprietary | Proprietary | European Union [1] | Eight hours | 20 (skin) | 98 (skin) |
| | | | Short term | 50 (skin) | 246 (skin) |

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

| Name | DNEL/DMEL | Type | Value |
|--|------------------|---------------------------------------|-----------------------------|
| Proprietary CAS No: Proprietary EC No: Proprietary | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 98 (mg/m ³) |
| propan-2-ol, isopropyl alcohol, isopropanol CAS No: 67-63-0 EC No: 200-661-7 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 500 (mg/m ³) |
| | DNEL (Consumers) | Inhalation, Chronic, Systemic effects | 89 (mg/m ³) |
| | DNEL (Workers) | Dermal, Chronic, Systemic effects | 888 (mg/kg bw/day) |
| | DNEL (Consumers) | Dermal, Chronic, Systemic effects | 319 (mg/kg bw/day) |
| | DNEL (Consumers) | Oral, Chronic, Systemic effects | 26 (mg/kg bw/day) |
| Triacetine CAS No: 102-76-1 EC No: 203-051-9 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 35,275 (mg/m ³) |
| disodium metasilicate CAS No: 6834-92-0 EC No: 229-912-9 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 6,22 (mg/m ³) |
| | DNEL (Consumers) | Inhalation, Chronic, Systemic effects | 1,55 (mg/m ³) |
| | DNEL (Workers) | Dermal, Chronic, Systemic effects | 1,49 (mg/kg bw/day) |
| | DNEL (Consumers) | Dermal, Chronic, Systemic effects | 0,74 (mg/m ³) |
| | DNEL (Consumers) | Oral, Chronic, Systemic effects | 0,74 (mg/kg bw/day) |

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| | | | |
|---|------------------------------------|--|--|
| boric acid CAS No: 10043-35-3 EC No: 233-139-2 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 8,3 (mg/m ³) |
| sodium hydroxide, caustic soda CAS No: 1310-73-2 EC No: 215-185-5 | DNEL (Workers) DNEL (Consumers) | Inhalation, Chronic, Local effects Inhalation, Chronic, Local effects | 1 (mg/m ³) 1 (mg/m ³) |
| potassium chloride CAS No: 7447-40-7 EC No: 231-211-8 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 1064 (mg/m ³) |
| citral CAS No: 5392-40-5 EC No: 226-394-6 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 9 (mg/m ³) |
| citronellol CAS No: 106-22-9 EC No: 203-375-0 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 161,6 (mg/m ³) |
| linalyl acetate CAS No: 115-95-7 EC No: 204-116-4 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 2,75 (mg/m ³) |
| 2,6-di-tert-butyl-p-cresol CAS No: 128-37-0 EC No: 204-881-4 | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 3,5 (mg/m ³) |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

| Name | Details | Value |
|--|------------------------------|-------------------------|
| propan-2-ol, isopropyl alcohol, isopropanol CAS No: 67-63-0 EC No: 200-661-7 | aqua (freshwater) | 140,9 (mg/L) |
| | aqua (marine water) | 140,9 (mg/L) |
| | aqua (intermittent releases) | 140,9 (mg/L) |
| | sediment (freshwater) | 552 (mg/kg sediment dw) |
| | sediment (marine water) | 552 (mg/kg sediment dw) |
| | Soil | 28 (mg/kg soil dw) |
| | STP | 2251 (mg/L) |
| | oral (Hazard for predators) | 160 (mg/kg food) |
| disodium metasilicate CAS No: 6834-92-0 EC No: 229-912-9 | aqua (freshwater) | 7,5 (mg/l) |
| | aqua (marine water) | 1 (mg/l) |
| | aqua (intermittent releases) | 7,5 (mg/l) |
| | STP | 1000 (mg/l) |

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

| | |
|--|--|
| Concentration: | 100 % |
| Uses: | Adhesive and glue remover. |
| Breathing protection: | |
| If the recommended technical measures are observed, no individual protection equipment is necessary. | |
| Hand protection: | |
| PPE: | Work gloves. |
| Characteristics: | «CE» marking, category I. |
| CEN standards: | EN 374-1, EN 374-2, EN 374-3, EN 420 |
| Maintenance: | Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. |
| Observations: | Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives. |
| | Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. |
| | Always use with clean, dry hands. |

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|-------------------------|--|---------------------------|-------|--------------------------|---|
| Material: | PVC (polyvinyl chloride) | Breakthrough time (min.): | > 480 | Material thickness (mm): | 0,35 |
| Eye protection: | | | | | |
| PPE: | Protective goggles with built-in frame. | | | |  |
| Characteristics: | «CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour. | | | | |
| CEN standards: | EN 165, EN 166, EN 167, EN 168 | | | | |
| Maintenance: | Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. | | | | |
| Observations: | Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc. | | | | |
| Skin protection: | | | | | |
| PPE: | Protective clothing. | | | | |
| Characteristics: | «CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements. | | | | |
| CEN standards: | EN 340 | | | | |
| Maintenance: | In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer. | | | | |
| Observations: | The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use. | | | | |
| PPE: | Work footwear. | | | | |
| Characteristics: | «CE» marking, category II. | | | | |
| CEN standards: | EN ISO 13287, EN 20347 | | | | |
| Maintenance: | This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people. | | | | |
| Observations: | Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident | | | | |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Liquid.
Colour: Yellow.
Odour: Orange.
Odour threshold: Not available.
Melting point: Not applicable.
Freezing point: Not available.
Boiling point or initial boiling point and boiling range: 100 °C
Flammability: Not available.
Lower explosion limit: Not available.
Upper explosion limit: Not available.
Flash point: 65 °C
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
pH: 11 - 12
Kinematic viscosity: Not available.
Solubility: Soluble.
Hydrosolubility: Not available.
Liposolubility: Not available.
Partition coefficient n-octanol/water (log value): Not available.
Vapour pressure: Not available.
Absolute density: 1000 kg/m³
Relative density: Not available.
Relative vapour density: Not available.
Particle characteristics: Not available.

9.2 Other information

Not available.

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SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

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

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

2-butoxyethanol and its acetate are easily absorbed by the skin and can cause noxious effects to the kidneys.

11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

| Name | Acute toxicity | | | |
|--|----------------|------|--------|---|
| | Type | Test | Kind | Value |
| propan-2-ol, isopropyl alcohol, isopropanol CAS No: 67-63-0 EC No: 200-661-7 | Oral | LD50 | Rat | 5050 mg/kg bw [1] [1] Gigiena i Sanitariya. For English translation, see HYSAAV. Vol. 43(1), Pg. 8, 1978 |
| | Dermal | LD50 | Rabbit | 12800 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 100, 1974 |
| | Inhalation | LC50 | Rat | >10000 ppm (6 h) [1] [1] OECD Guideline 403 (Acute Inhalation Toxicity), study report, 1991 |
| sodium hydroxide, caustic soda CAS No: 1310-73-2 EC No: 215-185-5 | Oral | LD50 | Rabbit | 325 mg/kg bw [1] [1] Naunyn-Schmiedeberg's (1937), Archiv für experimentielle Pathologie und Pharmakologie (Berlin, Germany), 184, 587-604 |
| | Dermal | | | |
| | Inhalation | | | |

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 7,143 mg/kg

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b) skin corrosion/irritation;
Based on available data, the classification criteria are not met.

c) serious eye damage/irritation;
Product classified:
Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;
Based on available data, the classification criteria are not met.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Not conclusive data for classification.

g) reproductive toxicity;
Based on available data, the classification criteria are not met.

h) STOT-single exposure;
Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

| Name | Ecotoxicity | | | |
|---|-----------------------|---|-------------------------|----------------------|
| | Type | Test | Kind | Value |
| propan-2-ol, isopropyl alcohol, isopropanol | Fish | LC50 | Fish | 9640 mg/l (96 h) [1] |
| | | [1] Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (<i>Pimephales promelas</i>), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414 | | |
| | Aquatic invertebrates | LC50 | Crustacean | 1400 mg/l (48 h) [1] |
| CAS No: 67-63-0 EC No: 200-661-7 | | [1] Blackman, R.A.A. 1974. Toxicity of Oil-Sinking Agents. Mar.Pollut.Bull. 5:116-118 | | |
| | Aquatic plants | Toxicity threshold | Scenedesmus quadricauda | 1800 mg/L (7 d) [1] |
| | | [1] Comparison of the Toxicity Thresholds of Water Pollutants to Bacteria, Algae, and Protozoa in the Cell Multiplication Inhibition Test, Water Research Vol. 14. pp. 231 to 241 | | |

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| sodium hydroxide, caustic soda CAS No: 1310-73-2 EC No: 215-185-5 | Fish | Minimal Lethal Concentration Notropis sp. 100 mg/L (120 h) [1] [1] Van Horn et al. (1949), Effects of Kraft Mill Wastes, American Fisheries Society |
| | Aquatic invertebrates | LC50 Ophryotrocha diadema 33 mg/L (48 h) [1] [1] Parker JG (1984), Wat Res, 18, 865-868 |
| | Aquatic plants | |

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.
No information is available on the degradability of the substances present.
No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

| Name | Bioaccumulation | | | |
|--|-----------------|-----|-------|-----------|
| | Log Pow | BCF | NOECs | Level |
| Proprietary CAS No: Proprietary EC No: Proprietary | 0,8 | - | - | Very high |
| propan-2-ol, isopropyl alcohol, isopropanol CAS No: 67-63-0 EC No: 200-661-7 | 0,05 | - | - | High |
| citronellol CAS No: 106-22-9 EC No: 203-375-0 | 4,04 | - | - | Very high |
| Decanal CAS No: 112-31-2 EC No: 203-957-4 | 3,76 | - | - | Very high |
| Linalyl acetate CAS No: 115-95-7 EC No: 204-116-4 | 3,93 | - | - | Very high |
| Octanal CAS No: 124-13-0 EC No: 204-683-8 | 2,78 | - | - | Very high |

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

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12.7 Other adverse effects.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number or ID number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR/RID: Not classified as hazardous for transport.

IMDG: Not classified as hazardous for transport.

ICAO/IATA: Not classified as hazardous for transport.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): Not applicable.

14.6 Special precautions for user.

Transportation is not dangerous.

14.7 Maritime transport in bulk according to IMO instruments.

Not classified as hazardous for transport.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

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| Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|---|--|
| 3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | 1. Shall not be used in: - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, - tricks and jokes, - games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: - can be used as fuel in decorative oil lamps for supply to the general public, and, - present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage'; (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage'; (c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. |

Kind of pollutant to water (Germany): WGK 1: Slightly hazardous to water. (Autoclassified according to the AwSV Regulations)

15.2 Chemical safety assessment.

The supplier has carried out a Chemical Safety Assessment for the substance/mixture.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic 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. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360FD | May damage fertility. May damage the unborn child. |
| H400 | Very toxic to aquatic life. |

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H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 2 : Acute toxicity (Inhalation), Category 2
Acute Tox. 3 : Acute toxicity (Dermal), Category 3
Acute Tox. 3 : Acute toxicity (Inhalation), Category 3
Acute Tox. 3 : Acute toxicity (Oral), Category 3
Acute Tox. 4 : Acute toxicity (Oral), Category 4
Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1
Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1
Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2
Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3
Eye Dam. 1 : Serious eye damage, Category 1
Eye Irrit. 2 : Eye irritation, Category 2
Flam. Liq. 2 : Flammable liquid, Category 2
Flam. Liq. 3 : Flammable liquid, Category 3
Repr. 1B : Reproductive toxicant, Category 1B
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3
Skin Corr. 1A : Skin Corrosive, Category 1A
Skin Corr. 1B : Skin Corrosive, Category 1B
Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1
Skin Sens. 1A : Skin sensitiser, Category 1A
Skin Sens. 1B : Skin sensitiser, Category 1B

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | |
|-----------------------|-----------------------|
| Physical hazards | On basis of test data |
| Health hazards | Calculation method |
| Environmental hazards | Calculation method |

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

AwSV: Facility Regulations for handling substances that are hazardous for the water.
BCF: Bioconcentration factor.
CEN: European Committee for Standardization.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
NOEC: No observed effect concentration.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
WGK: Water hazard classes.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>
<http://echa.europa.eu/>
Regulation (EU) 2020/878.
Regulation (EC) No 1907/2006.
Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

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The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.