

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

| | |
|---------------------------|-------------------------------------|
| Code: | SCEP00301_ |
| Product name | Grafic PU |
| Chemical name and synonym | Water based polymer emulsion |

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

| | |
|--------------|---|
| Intended use | Aqueous emulsion of water dispersible polymers, pigments and plasticizers for screen printing. |
|--------------|---|

1.3. Details of the supplier of the safety data sheet

| | | | |
|--|------------------------------|-------------------------|-------------|
| Name | SAATI S.P.A. | | |
| Full address | Via Milano, 14 | | |
| District and Country | 22070 | Appiano Gentile | (CO) |
| | | Italy | |
| | Tel. | 0039.031.9711 | |
| | Fax | 0039.031.933.392 | |
| e-mail address of the competent person responsible for the Safety Data Sheet | info.it@saatichem.com | | |

1.4. Emergency telephone number

| | |
|-------------------------------|--|
| For urgent inquiries refer to | SAATI SPA - tel+39 0319711 - fax+39 031933392 |
| | CAV ""Osp. Pediatrico Bambino Gesù"", Roma: 06-68593726 |
| | Az. Osp. Univ. Foggia, Foggia: 800183459 |
| | Az. Osp. ""A. Cardarelli"", Napoli: 081-5453333 |
| | CAV Policlinico ""Umberto I"", Roma: 06-49978000 |
| | CAV Policlinico ""A. Gemelli"", Roma: 06-3054343 |
| | Az. Osp. ""Careggi"" U.O. Tossicologia Medica, Firenze: 055-7947819 |
| | CAV Centro Nazionale di Informazione Tossicologica, Pavia: 0382-24444 |
| | Osp. Niguarda Ca' Granda, Milano: 02-66101029 |
| | Azienda Ospedaliera Papa Giovanni XXIII, Bergamo: 800883300 |
| | Azienda Ospedaliera Integrata Verona, Verona: 800011858" |

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| | | |
|--------------------------------|------|--------------------------------------|
| Skin sensitization, category 1 | H317 | May cause an allergic skin reaction. |
|--------------------------------|------|--------------------------------------|

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



SECTION 2. Hazards identification ... / >>

| | |
|---|---|
| Signal words: | Warning |
| Hazard statements: H317 | May cause an allergic skin reaction. |
| Precautionary statements: P280 P261 P333+P313 P362+P364 | Wear protective gloves. Avoid breathing dust / fume / gas / mist / vapours / spray. If skin irritation or rash occurs: Get medical advice / attention. Take off contaminated clothing and wash it before reuse. |
| Contains: | Propoxylated glycerol, esters with acrylic acid REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) 1,2-Benzoisothiazol-3(2H)-one 2,4-diethyl-9H-thioxanthen-9-one |

Contains: biocides

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

| Identification | x = Conc. % | Classification (EC) 1272/2008 (CLP) |
|---|-----------------------|--|
| Propoxylated glycerol, esters with acrylic acid | | |
| INDEX | 7,5 \leq x < 10 | Eye Irrit. 2 H319, Skin Sens. 1 H317 |
| EC | 500-114-5 | |
| CAS | 52408-84-1 | |
| REACH Reg. | 01-2119487948-12-xxxx | |
| Reaction mass of 2-[2-(benzoyloxy)ethoxy]ethyl benzoate, 1-[2-(benzoyloxy)propoxy]propan-2-yl benzoate, and 2-[2-[2-(benzoyloxy)ethoxy]ethoxy]ethyl benzoate | | |
| INDEX | 4 \leq x < 4,5 | Aquatic Chronic 3 H412 |
| EC | 907-434-8 | |
| CAS | | |
| REACH Reg. | 01-2119535193-44-xxxx | |
| 2,4-diethyl-9H-thioxanthen-9-one | | |
| INDEX | 0,1 \leq x < 0,15 | Skin Sens. 1 H317 |
| EC | 280-041-0 | |
| CAS | 82799-44-8 | |
| REACH Reg. | 01-2120769922-42-XXXX | |
| 1,2-Benzoisothiazol-3(2H)-one | | |
| INDEX | 613-088-00-6 | Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 |
| EC | 220-120-9 | Skin Sens. 1A H317: \geq 0,036% |
| CAS | 2634-33-5 | LD50 Oral: 450 mg/kg, LC50 Inhalation mists/powders: 0,21 mg/l/4h |
| REACH Reg. | 01-2120761540-60 | |
| REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) | | |
| INDEX | 613-167-00-5 | Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100 |
| EC | | Skin Corr. 1C H314: \geq 0,6%, Skin Irrit. 2 H315: \geq 0,06% - < 0,6%, Skin Sens. 1A H317: \geq 0,0015%, Eye Dam. 1 H318: \geq 0,6%, Eye Irrit. 2 H319: \geq 0,06% - < 0,6% |
| CAS | 55965-84-9 | ATE Oral: 100 mg/kg, ATE Dermal: 50,001 mg/kg, ATE Inhalation mists/powders: 0,051 mg/l |

SECTION 3. Composition/information on ingredients ... / >>

REACH Reg. 01-2120764691-48-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If skin irritation or rash occurs: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Choose the most appropriate extinguishing equipment for the specific case.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

The product is neither flammable nor combustible.

5.3. Advice for firefighters

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency

SECTION 6. Accidental release measures ... / >>

procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 12

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

| | | |
|-----|-------------|--|
| DEU | Deutschland | WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe |
| POL | Polska | ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 24 czerwca 2024 r. zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy |

1,2-Benzisothiazol-3(2H)-one

Predicted no-effect concentration - PNEC

| | | |
|--|---------|-------|
| Normal value in fresh water | 0,00403 | mg/l |
| Normal value in marine water | 0,00040 | mg/l |
| | 3 | |
| Normal value for fresh water sediment | 0,0499 | mg/kg |
| Normal value for marine water sediment | 0,00499 | mg/kg |
| Normal value for water, intermittent release | 0,0011 | mg/l |
| Normal value of STP microorganisms | 1,03 | mg/l |
| Normal value for the terrestrial compartment | 3 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation | | | | 1,2 mg/m3 | | | | 6,81 mg/kg |
| Skin | | | | 0,345 mg/kg | | | | 0,966 mg/kg |

SECTION 8. Exposure controls/personal protection ... / >>

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE

(3:1)

Threshold Limit Value

| Type | Country | TWA/8h mg/m3 | ppm | STEL/15min mg/m3 | ppm | Remarks / Observations |
|-----------|---------|-----------------|-----|---------------------|-----|------------------------|
| AGW | DEU | 0,2 | | 0,4 | | INHAL |
| NDS/NDSch | POL | 0,2 | | 0,4 | | INHAL |

Predicted no-effect concentration - PNEC

| | | |
|---|---------|---------|
| Normal value in fresh water | 0,00339 | mg/l |
| Normal value in marine water | 0,00033 | mg/l |
| | 9 | |
| Normal value for fresh water sediment | 0,027 | mg/kg/d |
| Normal value for marine water sediment | 0,027 | mg/kg/d |
| Normal value for marine water, intermittent release | 0,00339 | mg/l |
| Normal value for fresh water, intermittent release | 0,00339 | mg/l |
| Normal value of STP microorganisms | 0,23 | mg/l |
| Normal value for the terrestrial compartment | 0,01 | mg/kg/d |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|-------------------|------------------|---------------------|--------------------|-------------------|------------------|---------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | 0,11 mg/kg/d | | 0,09 mg/kg/d | | | | |
| Inhalation | 0,04 mg/m3 | | 0,02 mg/m3 | | 0,04 mg/m3 | | 0,02 mg/m3 | |

Propoxylated glycerol, esters with acrylic acid

Predicted no-effect concentration - PNEC

| | | |
|--|---------|----------|
| Normal value in fresh water | 0,00574 | mg/l |
| Normal value in marine water | 0,00057 | mg/l |
| | 4 | |
| Normal value for fresh water sediment | 0,078 | mg/kg dw |
| Normal value for marine water sediment | 0,0078 | mg/kg dw |
| Normal value for water, intermittent release | 0,0574 | mg/l |
| Normal value of STP microorganisms | 10 | mg/l |
| Normal value for the terrestrial compartment | 0,00122 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|-------------------|------------------|---------------------|--------------------|-------------------|------------------|----------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation | | | | | | | | 7,4 mg/m3 |
| Skin | | | | | | | | 2,1 mg/kg bw/d |

Reaction mass of 2-[2-(benzoyloxy)ethoxy]ethyl benzoate, 1-[2-(benzoyloxy)propoxy]propan-2-yl benzoate, and 2-[2-[2-(benzoyloxy)ethoxy]ethoxy]ethyl benzoate

Predicted no-effect concentration - PNEC

| | | |
|--|---------|-------|
| Normal value in fresh water | 0,0029 | mg/l |
| Normal value in marine water | 0,00029 | mg/l |
| Normal value for fresh water sediment | 1,16 | mg/kg |
| Normal value for marine water sediment | 0,116 | mg/kg |
| Normal value for water, intermittent release | 0,029 | mg/l |
| Normal value of STP microorganisms | 10 | mg/l |
| Normal value for the terrestrial compartment | 1 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|-------------------|------------------|---------------------|--------------------|-------------------|------------------|---------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | VND | 80 mg/kg | VND | 0,8 mg/kg | | | | |
| Inhalation | VND | 8,7 mg/m3 | VND | 1,4 mg/m3 | VND | 35,08 mg/m3 | VND | 5,8 mg/m3 |
| Skin | VND | 8 mg/kg | VND | 0,8 mg/kg | VND | 160 mg/kg | VND | 1,7 mg/kg |

SECTION 8. Exposure controls/personal protection ... / >>

2,4-diethyl-9H-thioxanthen-9-one

Predicted no-effect concentration - PNEC

| | | |
|--|-------|-------|
| Normal value for fresh water sediment | 0,199 | mg/kg |
| Normal value for marine water sediment | 0,02 | mg/kg |
| Normal value for the terrestrial compartment | 0,04 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|---------------------|--------------------|----------------|---------------|-----------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 1,67 mg/kg bw/d | | | | 4,67 mg/kg bw/d |
| Inhalation | | | | 0,91 mg/m3 | | | 5,14 | 5,14 mg/m3 |
| Skin | | | | 0,521 mg/kg bw/d | | | | 1,46 mg/kg bw/d |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

Engineering Controls: Provide adequate ventilation to control air contaminants below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Aspiratory system is recommended.

RESPIRATORY PROTECTION: If exposure levels exceed the PEL/TLV levels, use approved respirator.

SKIN PROTECTION: Nitrile gloves are required to prevent skin contact.

EYE PROTECTION: Safety glasses required.

OTHER PROTECTION : Face Shield and apron are recommended.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Information |
|--|----------------------------|-------------|
| Appearance | viscous liquid | |
| Colour | blue | |
| Odour | Light | |
| Melting point / freezing point | not available | |
| Initial boiling point | > 100 °C | |
| Flammability | incombustible | |
| Lower explosive limit | not available | |
| Upper explosive limit | not available | |
| Flash point | not available | |
| Auto-ignition temperature | not available | |
| Decomposition temperature | not available | |
| pH | 5 | |
| Kinematic viscosity | not available | |
| Dynamic viscosity | 7800 mPa*s | |
| Solubility | partially soluble in water | |
| Partition coefficient: n-octanol/water | not available | |
| Vapour pressure | 18 mmHg | |
| Density and/or relative density | 1,05 | |
| Relative vapour density | not available | |
| Particle characteristics | not applicable | |

9.2. Other information

SECTION 9. Physical and chemical properties ... / >>

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F) 40,00 %

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Propoxylated glycerol, esters with acrylic acid

Propoxylated glycerol, esters with acrylic acid:

Eye irritation: Irritating to eyes

Skin Irritation: Non-irritating to skin

Sensitization: skin sensitizer

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

SECTION 11. Toxicological information ... / >>

Propoxylated glycerol, esters with acrylic acid
LD50 (Dermal): > 2000 mg/kg bw Rabbit
LD50 (Oral): > 2000 mg/kg bw Rat

2,4-diethyl-9H-thioxanthen-9-one
LD50 (Dermal): > 2000 mg/kg Rat
LD50 (Oral): > 2000 mg/kg Rat

1,2-Benzothiazol-3(2H)-one
LD50 (Dermal): > 2000 mg/kg Rat
LD50 (Oral): 450 mg/kg Rat
LC50 (Inhalation mists/powders): 0,21 mg/l/4h Rat

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
LD50 (Dermal): 1008 mg/kg Rat
LC50 (Inhalation mists/powders): 2,36 mg/l/4h

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Propoxylated glycerol, esters with acrylic acid
LC50 - for Fish 5,74 mg/l/96h Danio rerio (OECD TG 203)
EC50 - for Crustacea 91,4 mg/l/48h Daphnia magna (OECD TG 202)
EC50 - for Algae / Aquatic Plants 12,2 mg/l/72h Desmodesmus subspicatus (OECD TG 201)

SECTION 12. Ecological information ... / >>

| | |
|---|--|
| Propoxylated glycerol, esters with acrylic acid Chronic NOEC for Algae / Aquatic Plants | 2,06 mg/l |
| Reaction mass of 2-[2-(benzoyloxy)ethoxy]ethyl benzoate, 1-[2-(benzoyloxy)propoxy]propan-2-yl benzoate, and 2-[2-[2-(benzoyloxy)ethoxy]ethoxy]ethyl benzoate EC50 - for Algae / Aquatic Plants | 3,2 mg/l/72h |
| Chronic NOEC for Fish | 0,17 mg/l Pimephales promelas (Cavedano americano) 28d |
| Chronic NOEC for Crustacea | 1,7 mg/l Daphnia magna (Pulce d'acqua grande) 21d |
| 2,4-diethyl-9H-thioxanthen-9-one LC50 - for Fish | 3,3 mg/l/96h |
| EC50 - for Algae / Aquatic Plants | 0,038 mg/l/72h |
| 1,2-Benzothiazol-3(2H)-one LC50 - for Fish | 2,15 mg/l/96h Cyprinodon variegates |
| EC50 - for Crustacea | 2,9 mg/l/48h Daphnia magna |
| EC50 - for Algae / Aquatic Plants | 0,11 mg/l/72h |
| Chronic NOEC for Algae / Aquatic Plants | 0,0403 mg/l |
| REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) Chronic NOEC for Algae / Aquatic Plants | 0,0035 mg/l |

12.2. Persistence and degradability

Propoxylated glycerol, esters with acrylic acid
Rapidly degradable

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Propoxylated glycerol, esters with acrylic acid
Propoxylated glycerol, esters with acrylic acid: not PBT and vPvB

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

| | |
|----------------------------|----|
| <u>Product</u> | |
| <u>Point</u> | 3 |
| <u>Contained substance</u> | |
| <u>Point</u> | 75 |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

SECTION 15. Regulatory information ... / >>

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)
WGK 1: Low hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|--------------------------|--|
| Acute Tox. 2 | Acute toxicity, category 2 |
| Acute Tox. 3 | Acute toxicity, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Skin Corr. 1C | Skin corrosion, category 1C |
| Skin Corr. 1 | Skin corrosion, category 1 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Skin Sens. 1A | Skin sensitization, category 1A |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H310 | Fatal in contact with skin. |
| H330 | Fatal if inhaled. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| 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. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative

SECTION 16. Other information ... / >>

- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 11 / 12 / 15.