

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 14-12-2022
Trade name: Colophane

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

1.1 Product identification:

Product name: Colophane
Registration number (REACH): 01-2119480418-32-xxxx
Cataloguing number in Annex VI to CLP: 650-015-00-7
EC no: 232-475-7
CAS number: 8050-09-7

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

Relevant identified uses: Laboratory chemicals.
Analytical and laboratory applications.
Uses advised against: Not to be used for products in contact with food.
Not to be used for private purposes (household).

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

Skin sensitisation (Category 1), H317

For the full text of H phrases referred to in this section, see section 16.

2.2 Labelling elements:

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



Hazard pictograms:

Signal word:

Warning

Hazard statements:

H317 May cause an allergic skin reaction.

Safety recommendations:

P280 Wear protective gloves.

Precautions - reaction:

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 In case of skin irritation or rash: consult a doctor.

2.3 Other hazards:

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Particular danger of slipping due to leaks/spills.

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.1 Substances:

"UVCB substance" (substance of unknown or varying composition).

| Substance name (synonyms): | Product identification | % | Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]. |
|----------------------------|---|----------|--|
| Colophane | CAS No: 8050-09-7 EC No : 232-475-7 Index no: 650-015-00-7 REACH reg. no. 01-2119480418-32 Molecular weight : 302 g/mol | <= 100 % | Skin Sens. 1; H317 |

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General advice:

Remove contaminated clothing.

By inhalation:

Provide fresh air.

If in doubt or if symptoms persist, consult a doctor.

On contact with skin:

Wash with plenty of soap and water.

In case of skin reactions consult doctor.

On contact with eyes:

Rinse gently with water for several minutes.

If in doubt or if symptoms persist, consult a doctor.

If swallowed:

Rinsing the mouth.

If you feel unwell, consult a doctor.

4.2 Main acute and delayed symptoms and effects:

Irritant effects, Allergic reactions, Pruritus (itching), Respiratory difficulties.

4.3 Indication of immediate medical attention and special treatment required:

No data available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Match fire-fighting measures to environment.

Water, foam, dry extinguishing powder, ABC powder.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture:

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Flammable.

Hazardous combustion products:

Carbon monoxide (CO), Carbon dioxide (CO₂), Can produce toxic carbon monoxide fumes in case of fire.

5.3 Advice for firefighters:

In case of fire and/or explosion, avoid breathing fumes.

With normal precautions, extinguish from a reasonable distance.

Wear self-contained breathing apparatus.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For persons other than emergency services:

Avoid contact with skin, eyes and clothing.

Do not inhale dust.

6.2 Environmental precautions:

Avoid getting the product into drains, surface water or groundwater.

6.3 Methods and materials for containment and cleaning:

Advice on how to contain the spill:

Covering drains.

Mechanical recording.

Advice on how to clean up the spill:

Mechanical recording.

Combating dust formation.

Other information relating to discharge or release:

Put into suitable retainers for disposal.

Ventilate the affected area.

6.4 Reference to other sections:

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Instructions for disposal: see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

Measures to ensure adequate ventilation.

Avoid dust generation.

Advice on general occupational hygiene:

Wash hands before work breaks and end of work.

Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including incompatibilities:

Keep in tightly closed container.

Store in a dry place.

Incompatible substances or mixtures:

Note advice for chemical storage.

Consideration of other advice:

Specific designs for storage rooms or vessels.

Recommended storage temperature: 15-25 °C.

7.3 Specific end use:

No information is available.

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SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National limits

Occupational exposure limits (occupational exposure limits)

This information is not available.

Human health values

| Relevant DNEL and other thresholds | | | | |
|------------------------------------|----------------------|---|------------------------|----------------------------|
| End point | Threshold | Protection objective, route of exposure | Used in | Exposure time |
| DNEL | 10 mg/m ³ | human, via inhalation | (industrial) employees | chronic - local effects |
| DNEL | 2.131 mg/kg bw/day | human, through the skin | (industrial) employees | chronic - systemic effects |

Environmental values

| Relevant PNEC and other thresholds | | | | |
|------------------------------------|-------------|-----------------------|-------------------------------|----------------------|
| End point | Threshold | Organism | Environmental compartments | Exposure time |
| PNEC | 0.002 mg/l | Aquatic organisms | Freshwater | short-term (one-off) |
| PNEC | 0 mg/l | Aquatic organisms | Seawater | short-term (one-off) |
| PNEC | 1,000 mg/l | Aquatic organisms | Sewage treatment plants (STP) | short-term (one-off) |
| PNEC | 0.007 mg/kg | Aquatic organisms | Freshwater sediment | short-term (one-off) |
| PNEC | 0.001 mg/kg | Aquatic organisms | Sea water sediment | short-term (one-off) |
| PNEC | 0 mg/kg | Terrestrial organisms | Bottom | short-term (one-off) |

8.2 Exposure control measures:

Individual protection measures (personal protective equipment)

Eye/face protection:

Wear safety goggles with side protection.

Skin protection:

Hand protection:

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

It is recommended that in case of special applications, the chemical resistance of the safety gloves mentioned above be checked with the supplier of the gloves.

Times are estimated values from measurements at 22°C and permanent contact.

Increased temperatures due to heated fabrics, body heat, etc.

And a reduction in effective layer thickness due to stretching can lead to a significant reduction in breakthrough time.

If in doubt, contact the manufacturer.

For a layer thickness approximately 1.5 times larger / smaller, the respective breakthrough time is doubled / halved.

The data applies only to the pure substance.

When transferred to mixtures of substances, they should only be considered as guidelines.

Type of material:

NBR (nitrile rubber)

Material thickness:

>0.11 mm

Breakthrough time of glove material:

>480 minutes (permeation level: 6)

Other protective equipment:

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

Respiratory protection:

Respiratory protection is necessary in case of: Dust generation.

Particle filter (EN 143). P1 (filters at least 80% of air particles, colour code: white).

Managing environmental exposure:

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Avoid getting the product into drains, surface water or groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

| | |
|---|--|
| Physical state: | solid |
| Shape: | resin |
| Colour: | yellow-brown |
| Odour: | characteristic |
| Melting/freezing point: | 66.5-93.4°C at 1,013 hPa (ECHA) |
| Boiling point or initial boiling point and boiling range: | >300°C |
| Flammability: | this material is flammable, but will not easily catch fire |
| Lower and upper explosion limit: | not determined |
| Flash point: | >180°C |
| Self-ignition temperature: | undetermined |
| Decomposition temperature: | 265°C at 102.4 kPa (ECHA) |
| pH value: | not applicable |
| Kinematic viscosity: | irrelevant |

Solubility(s)

Solubility in water: <1 g/l at 20°C (ECHA)

Partition coefficient

Partition coefficient n-octanol/water (log value): >3-≤6.2 (ECHA)

Soil/water organic carbon (log KOC): 3.729 (ECHA)

Vapour pressure: 108 mbar at 200°C

Density and/or relative density

Density: 1.034 g/cm³ at 20°C (ECHA)

Relative vapour density: no information is available with this property

Particle characteristics: No data available.

Other safety parameters

Oxidising properties: none.

9.2 Other information

Information on physical hazard classes: hazard classes in accordance with GHS
(physical hazards): not relevant

Other safety features:

Temperature class (EU, according to ATEX): T2
Maximum permissible surface temperature of the equipment: 300°C

SECTION 10: Stability and reactivity

10.1 Reactivity:

The product in its delivered form is not capable of causing a dust explosion, however the enrichment of fine dust leads to a dust explosion hazard.

10.2 Chemical Stability:

Decomposition possible with prolonged light exposure.

10.3 Potential Hazardous Reactions:

Violent reaction with: strong oxidising, Acids.

10.4 Conditions to avoid:

Keep away from heat.

Decomposition occurs from temperatures of: 265°C at 102.4 kPa.

10.5 Chemically Interacting Materials:

There is no further information.

10.6 Hazardous Decomposition Products:

Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Cannot be classified as acutely toxic.

| Route of exposure | End point | Value | Species | Method | Source |
|-------------------|-----------|--------------|---------|--------|--------|
| Oral | LD50 | >2,000 mg/kg | Rat | | ECHA |
| Dermal | LD50 | >2,000 mg/kg | Rat | | ECHA |

Skin corrosion/irritation

Is not classifiable as corrosive/irritating to the skin.

Serious eye damage/eye irritation

Cannot be classified as severely eye-injurious or irritating to the eyes.

Respiratory or skin sensitisation

May cause allergic skin reaction.

Mutagenicity in gametes

Is not classifiable as mutagenic in germ cells (mutagenic).

Carcinogenicity

Is not classifiable as carcinogenic.

Reproductive toxicity

Is not classifiable as a reproductive toxicant.

Specific target organ toxicity at single exposure

Cannot be classified as toxic to specific target organs (single exposure).

Specific target organ toxicity on repeated exposure

Cannot be classified as toxic to specific target organs (repeated exposure).

Inhalation hazard

Is not classifiable as dangerous in aspiration.

Symptoms related to physical, chemical and toxicological properties

- After swallowing

No data are available.

- In case of contact with eyes

No data are available.

- After inhalation

irritant effects, cough, breathing difficulties

- On contact with skin

May cause allergic reaction, pruritus (itching), local redness

- Other information

none

11.2 Endocrine disrupting properties

Not stated.

11.3 Information on other hazards

There is no further information.

SECTION 12: Ecological information

12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

| End point | Value | Species | Source | Exposure time |
|-----------|----------|---------|--------|---------------|
| LC50 | 1.7 mg/l | Fish | ECHA | 96h |
| LL50 | <10 mg/l | Fish | ECHA | 96h |

Aquatic toxicity (acute)

| End point | Value | Species | Source | Exposure time |
|-----------|-------------|---------|--------|---------------|
| EL50 | >1,000 mg/l | Fish | ECHA | 96h |
| ErC50 | 39.6 mg/l | Algae | ECHA | 72h |

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| | | | | |
|------|-----------|-------|------|-----|
| EC50 | 16.6 mg/l | Algae | ECHA | 72h |
|------|-----------|-------|------|-----|

Aquatic toxicity (chronic)

| End point | Value | Species | Source | Exposure time |
|-----------|--------------|-----------------|--------|---------------|
| EC50 | >10,000 mg/l | micro-organisms | ECHA | 3h |

12.2 Persistence and Degradability:

Degradation process:

| Process | Degradation rate | Time |
|--------------------------|------------------|------|
| Carbon dioxide evolution | 80% | 28d |
| Oxygen depletion | 71% | 28d |

12.3 Bioaccumulation:

The substance meets the criterion for strong bioaccumulation.

n-octanol/water (log KOW): >3-≤6.2 (ECHA)

12.4 Mobility in soil:

Normalised adsorption coefficient for organic carbon: 3.729 (ECHA)

12.5 Results of PBT and vPvB assessment:

No data are available.

12.6 Endocrine disrupting properties

Not stated.

12.7 Other adverse effects

No data are available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Dispose of this substance and its packaging as hazardous waste.

Dispose of contents/packaging in accordance with local/regional/national/international regulations.

Information regarding wastewater discharge:

Do not throw waste into the sink.

Relevant provisions on waste prevention:

The allocation of waste key numbers/waste markings should be industry- and process-specific in accordance with AVV.

Hazardous properties of wastes:

HP 13 sensitising

Notes:

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

SECTION 14: Information relating to transport

14.1 UN number

Not regulated as a hazardous substance

14.2 Proper cargo name according to UN model regulations

Not regulated as a hazardous substance

14.3 Transport hazard class(es)

Not regulated as a hazardous substance

14.4 Packing group

Remarks : IMDG Code segregation group - none

Not regulated as a hazardous substance

14.5 Environmental hazards

Not regulated as a hazardous substance

14.6 Special precautions for the user

Not applicable

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

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Not applicable for product, as delivered.

14.8 Information for each of the UN regulations

Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to the IMDG.

International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

Relevant European Union (EU) provisions

Restrictions in accordance with REACH, Annex XVII

Restricted hazardous substances (REACH, Annex XVII)

| Name of substance | Name according to inventory | CAS No. | Restriction | No. |
|-------------------|---|---------|-------------|-----|
| Colophane | substances in ink for tattoo or permanent make-up | | R75 | 75 |

Legend

R75 1. Shall not be placed on the market in mixtures for tattooing purposes, and mixtures containing such substances shall not be used for tattooing purposes after 4 January 2022 if the substance(s) in question is/are present or the following conditions occur:

- in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogenic category 1A, 1B or 2, or as germ cell mutagenic category 1A, 1B or 2, the concentration of that substance in the mixture is equal to or greater than 0.00005 % by weight;
 - in the case of a substance classified as toxic to reproduction category 1A, 1B or 2 in Part 3 of Annex VI to Regulation (EC) No 1272/2008, the concentration of that substance in the mixture is equal to or greater than 0.001 % by weight;
 - in the case of a substance classified as a category 1, 1A or 1B skin allergen in Part 3 of Annex VI to Regulation (EC) No 1272/2008, the concentration of that substance in the mixture is equal to or greater than 0,001 % by weight;
 - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as corrosive to the skin, category 1, 1A, 1B or 1C, or irritant to the skin, category 2, or for serious eye damage, category 1, or irritant to the eyes, category 2, the concentration of that substance in the mixture is equal to or greater than:
 - 0.1 % by weight, if the substance is used exclusively as a pH regulator;
 - 0.01 % by weight, in all other cases;
 - in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), a concentration in the mixture equal to or greater than 0,00005 % by weight;
 - in the case of a substance for which column g (Product type, body parts) of the table in Annex IV to Regulation (EC) No 1223/2009 indicates one or more of the following types of conditions, the concentration of the substance in the mixture is equal to or greater than 0.00005 % by weight:
 - "Products that are washed off, out or away";
 - "Not to be used in products applied to mucous membranes";
 - "Do not use in eye products";
 - in the case of a substance for which a condition is specified in column h (Maximum concentration in the product ready for use) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the concentration of the substance in the mixture does not meet the condition specified in that column, or the substance otherwise fails to meet it;
 - in the case of a substance listed in Appendix 13 to this Annex, the concentration of the substance in the mixture equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry, use of a mixture means "for tattooing purposes":
the injection or insertion of the mixture into a person's skin, mucous membranes or eyeball by means of a process or procedure (including procedures commonly referred to as "permanent makeup", cosmetic tattooing, "microblading" and "micropigmentation"), for the purpose of leaving a permanent(er) mark or drawing on that person's body.
3. Where a substance not listed in Appendix 13 falls under more than one of items (a) to (g) of paragraph 1, the most stringent of the concentration limits set out in those items shall apply to that substance. Where a substance listed in Appendix 13 also falls under one or more of items (a) to (g) of paragraph 1, the concentration limit set out in paragraph 1(h) shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
- Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 - Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 and thereby classifies or reclassifies a substance in such a way that it falls under (a), (b), (c) or (d) of paragraph 1 of this entry, or under a different entry than before, and if the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall be treated, for the purposes of applying this entry to that substance, as applying on the date of application of that new or revised classification.

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6. Where the entry of a substance in Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 in such a way that the substance falls under (e), (f) or (g) of point 1 of this entry, or under a different point than before, and if the amendment takes effect after the date referred to in point 1 or, as the case may be, point 4 of this entry, that amendment shall be treated, for the purposes of applying this entry to that substance, as taking effect from the date falling 18 months after the entry into force of the act which adopted that amendment.

7. Suppliers placing a mixture on the market for tattooing purposes after 4 January 2022 shall ensure that the following information is indicated on the mixture:

(a) the text "Mixture for use in tattoos or permanent make-up";

(b) a unique batch identification reference number;

(c) the list of ingredients according to the nomenclature laid down in the glossary of common ingredient names in accordance with Article 33 of Regulation (EC) No 1223/2009, or, in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC designation, the CAS and EC number. Ingredients shall be listed in descending order of weight or volume of ingredients at the time of formulation. Ingredient means any substance added during the formulation of the mixture for tattooing purposes and present therein. Impurities are not considered ingredients. If the name of a substance added as an ingredient is within the meaning of this entry is already required to be labelled in accordance with Regulation (EC) No 1272/2008, that ingredient does not have to be labelled in accordance with this Regulation;

(d) the additional entry "pH regulator" for substances covered by paragraph 1(d)(ii);

(e) the statement "Contains nickel. May cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

(f) the statement "Contains hexavalent chromium (VI). May cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;

(g) safety precautions for use, if not already required to be indicated on the label pursuant to Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and indelible. The information shall appear in the official language(s) of the Member State(s) where the mixture is marketed, unless otherwise specified by the Member State(s) concerned. If there is not enough space on the packaging for the information referred to in the first subparagraph, that information shall, except as regards point (a), be included in the instructions for use. The person administering the mixture shall provide the information specified on the packaging or in the instructions for use in accordance with this point to the person undergoing the procedure before using the mixture for tattooing purposes.

8. Mixtures without the text "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances which are gases at a temperature of 20 °C and pressure of 101.3 kPa, or which generate a vapour pressure greater than 300 kPa at a temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market or use of mixtures for tattooing purposes that are placed on the market or used exclusively as medical devices or accessories to a medical device within the meaning of Regulation (EU) 2017/745. Where a mixture has not been placed on the market or cannot be used exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and the requirements of this Regulation apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not stated.

Seveso Directive

2012/18/EU (Seveso III)

Hazardous substance/hazard category: not assigned

Decopaint Directive

VOC content: 0 %
0 g/l

Directive on industrial emissions (IE Directive)

VOC content: 100 %
VOC content: 1,034 g/l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water framework directive (WFD)

not listed

Regulation on marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on ozone-depleting substances

not listed

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Regulation on export and import of dangerous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POPs)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

| Country | List | Status |
|---------|------------|---------------------------------|
| AU | AIIC | substance is mentioned |
| CA | DSL | substance is mentioned |
| CN | IECSC | substance is mentioned |
| EU | ECSI | substance is mentioned |
| EU | REACH REG. | substance is mentioned |
| KR | KECI | substance is mentioned |
| MX | INSQ | substance is mentioned |
| NZ | NZIoC | substance is mentioned |
| PH | PICCS | substance is mentioned |
| TR | CICR | substance is mentioned |
| TW | TCSI | substance is mentioned |
| US | TSCA | Substance is listed as 'ACTIVE' |

Legend

| | |
|------------|---|
| AIIC: | Australian Inventory of Industrial Chemicals |
| CICR: | Chemical Inventory and Control Regulation |
| DSL: | Domestic Substances List (DSL) |
| ECSI: | EC inventory (EINECS, ELINCS, NLP) |
| IECSC: | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ: | National Inventory of Chemical Substances |
| KECI: | Korea Existing Chemicals Inventory |
| NZIoC: | New Zealand Inventory of Chemicals |
| PICCS: | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg: | REACH registered substances |
| TCSI: | Taiwan Chemical Substance Inventory |
| TSCA: | Toxic Substance Control Act |

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information**Indication of changes (revised safety data sheet)**

Section 15.1: National inventories: change in listing (table)

Full content of H and EUH sentences:

H317 May cause an allergic skin reaction.

Abbreviations and acronyms:

| | |
|----------------|--|
| ADN : | Accord européen relatif au transport internationale des marchandises Dangereuses par voies de navigation Intérieures (European Agreement concerning the international carriage of dangerous goods by inland waterways) |
| ADR : | Accord relatif au transport internationale des marchandises Dangereuses par route (Agreement concerning the international carriage of dangerous goods by road) |
| CAS: | Chemical Abstracts Service (database for chemicals and their unique number, the CAS registration number) |
| catalogue no.: | The catalogue number is the identifier used in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| CLP: | Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures. |

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| | |
|-----------|---|
| DGR: | Dangerous Goods Regulations, regulations for the transport of dangerous goods, see IATA/DGR |
| DNEL: | Derived No-Effect Level. |
| EC50: | Effective concentration 50 %. The EC50 corresponds to the concentration of a tested substance that causes 50 % change in response (e.g. on growth) during a specified time interval |
| EC No: | The EC register (EINECS, ELINCS and the NLP register) is the source for the seven-digit EC number as a prefix for substances (European Union) |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| EL50: | Effective Loading 50 %: the EL50 corresponds to the loading required to obtain a response in 50 % of test organisms |
| ELINCS: | European List of Notified Chemical Substances |
| ErC50: | ≡ EC50: in this method, the concentration of a test substance at which a 50 % reduction in growth (EbC50) or growth rate (ErC50) occurs relative to the control |
| GHS: | "Globally Harmonised System of Classification and Labelling of Chemicals", developed by the United Nations |
| IATA: | International Air Transport Association |
| IATA/DGR: | Dangerous Goods Regulations (DGR) for aviation (IATA) |
| ICAO: | International Civil Aviation Organisation. |
| IMDG: | International Maritime Dangerous Goods Code (IMDG code) |
| LC50: | Lethal concentration 50 %: is the concentration value in air of the material at which 50 % of the test objects die during a specified time interval |
| LD50: | Lethal dose 50 %: the LD50 corresponds to the dose of a tested substance at which 50 % of the test subjects die during a specified time interval |
| LL50: | Lethal Loading 50 %: the LL50 corresponds to the loading that causes 50 % mortality |
| NLP: | No-Longer Polymer |
| PBT: | Persistent, Bioaccumulative and Toxic |
| PNEC: | Predicted no-effect concentration |
| REACH: | Registration, Evaluation, Authorisation and Restriction of Chemicals. |
| RID : | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the international carriage of dangerous goods by rail) |
| SVHC: | Substance of very high concern |
| VOCS: | Volatile organic compounds |
| vPvB: | Very persistent and very bioaccumulative |

Key literature references and data sources

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures.
Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU.
Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).

Disclaimer

This information is based on the current state of our knowledge.
This safety data sheet is compiled and intended exclusively for this product.