



Section 1. Product and Company Identification

Product Name Octocrylene
CAS Number 6197-30-4

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Section 2. Hazards Identification

Classification of the substance or mixture
According to Regulation (EC) No 1272/2008 [CLP]: Aquatic Chronic 4; H413

Hazard and precautionary statements

Hazard Statement

H413: May cause long lasting harmful effects to aquatic life.

Precautionary Statements (Prevention)

P273: Avoid release to the environment.

Precautionary Statements (Disposal)

P501: Dispose of contents/container to hazardous or special waste collection point.

According to Regulation (EC) No 1272/2008 [CLP]: No specific dangers known, if the regulations/notes for storage and handling are considered.

Section 3. Composition / Information on Ingredients

Common Name Octocrylene
Synonym(s) 2-Ethylhexyl-2-cyano-3, 3-diphenylacrylate
Formula $C_{24}H_{27}NO_2$
CAS Number 6197-30-4

Section 4. First Aid Measures

Description of first aid measures: If adverse health effects develop seek medical attention.

If inhaled: Keep patient calm, remove to fresh air.

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention if necessary.

On ingestion: Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam

Special hazards arising from the substance or mixture: carbon monoxide, Carbon dioxide, nitrogen oxides

Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective clothing.

Environmental precautions: Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations.

Section 7. Handling and Storage

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stainless steel 1.4301 (V2), Stainless steel 1.4401, High density polyethylene (HDPE), Low density polyethylene (LDPE), glass, tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Section 8. Exposure Controls / Personal Protection

Control parameters

Components with occupational exposure limits: No occupational exposure limits known.

PNEC

Freshwater: 0.023 mg/l

Marine water: 0.023 mg/l

Intermittent release: 0.023 mg/l

STP: 10 mg/l

Sediment (freshwater): 4110 mg/kg

Sediment (marine water): 411 mg/kg

Soil: 820 mg/kg

DNEL

Worker: Long-term exposure- systemic effects, dermal: 3600 mg/kg

Consumer: Long-term exposure- systemic effects, dermal: 2200 mg/kg

Exposure controls

Personal protective equipment

Respiratory protection: Respiratory protection in case of vapor/aerosol release. Gas filter for gases/vapors of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties

Form: liquid

Color: yellowish

Odor: faint odor

Odor threshold: not determined

pH value: 6.9 - 7.2

Melting point: -10 °C

Boiling point: The substance / product decomposes therefore not determined. Cannot be distilled without decomposition at normal pressure.

Flash point: 119 °C (DIN 51758)

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

Flammability: not flammable

Flammability of Aerosol Products: not applicable, the product does not form flammable aerosols

Lower explosion limit: For liquids not relevant for classification and labelling, the lower explosion point may be 5 - 15 °C below the flash point.

Upper explosion limit: For liquids not relevant for classification and labelling.

Ignition temperature: 401 °C (DIN EN 14522)

Vapor pressure: < 0.001 hPa (20 °C) (measured)

Density: 1.05 g/cm³ (25 °C)

Relative density: 1.05 (25 °C)

Relative vapor density (air): not determined

Solubility in water: sparingly soluble

Partitioning coefficient n-octanol/water (log Kow): 6.1 (23 °C) (OECD Guideline 117)

Self-ignition: Based on its structural properties the product is not classified as self-igniting.

Test type: Spontaneous self-ignition at room-temperature.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: 4,254 mPa.s (20 °C); 637 mPa.s (40 °C)

Viscosity, kinematic: not determined

Explosion hazard: Based on the chemical structure there is no indicating of explosive properties.

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Self-heating ability: It is not a substance capable of spontaneous heating. Not tested on account of the low melting-point.

pKA: The substance does not dissociate., Study scientifically not justified.

Surface tension: Determination was not possible.

Molar mass: 361.48 g/mol

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section. No further information available.

Section 10. Stability and Reactivity

Reactivity: No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

Formation of flammable gases: Forms no flammable gases in the presence of water.

Chemical stability: The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid: Avoid all sources of ignition: heat, sparks, open flame.

Incompatible materials

Substances to avoid: No substances known that should be avoided.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401) No mortality was observed. **LD50 rat (dermal):** > 2,000 mg/kg (OECD Guideline 402) No mortality was observed.

Irritation

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data: Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. No mutagenic effect was found in various tests with mammalian cell culture and mammals.

Carcinogenicity

Assessment of carcinogenicity: No data available concerning carcinogenic effects. Study does not need to be conducted.

Reproductive toxicity

Assessment of reproduction toxicity: No effects have been reported in reproductive organs in long term animal studies.

Developmental toxicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Specific target organ toxicity (single exposure)

Assessment of STOT single: Based on available Data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.

Aspiration hazard: No aspiration hazard expected.

Section 12. Ecological Information

Assessment of aquatic toxicity: May cause long lasting harmful effects to aquatic life. There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. No toxic effects occur within the range of solubility.

Toxicity to fish: LC50 (96 h) > 100 mg/l, Brachydanio rerio (Directive 92/69/EEC, C.1, static) Tested above maximum solubility. No toxic effects occur within the range of solubility.

Aquatic invertebrates: EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) No toxic effects occur within the range of solubility. The product has low solubility in the test medium. An eluate has been tested. The details of the toxic effect relate to the nominal concentration.

Aquatic plants: EC50 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static) The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge: EC50 (30 min) > 10,000 mg/l, activated sludge, domestic (DIN EN ISO 8192, aerobic)

Chronic toxicity to fish: Study scientifically not justified.

Chronic toxicity to aquatic invertebrates: Study technically not feasible.

Assessment of terrestrial toxicity: Study scientifically not justified.

Persistence and degradability

Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria). Poorly biodegradable.

Elimination information: 0 - 10 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Assessment of stability in water: In contact with water the substance will hydrolyze slowly.

Bioaccumulative potential

Assessment bioaccumulation potential: Accumulation in organisms is expected.

Bioaccumulation potential: Bioconcentration factor: 915 (28 d), Brachydanio rerio (OECD-Guideline 305)

Mobility in soil

Assessment transport between environmental compartments: Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is expected.

Results of PBT and vPvB assessment: According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of

Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.
Self-classification

Other adverse effects: The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer. No data available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Land transport

ADR: Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

RID: Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

Inland waterway transport

ADN: Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

Transport in inland waterway vessel: Not evaluated

Sea transport

IMDG: Not classified as a dangerous good under transport regulations

UN number: Not applicable

UN proper shipping name: Not applicable



Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations
UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation: Not evaluated
Shipment approved: Not evaluated
Pollution name: Not evaluated
Pollution category: Not evaluated
Ship Type: Not evaluated

Section 15. Regulatory Information

No data available.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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