



Section 1. Product and Company Identification

Product Name Octyl Methoxycinnamate
CAS Number 5466-77-3

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Section 2. Hazards Identification

Classification of the substance or mixture

Classification of the substance or mixture: This substance is not classified as hazardous according to Globally Harmonized System of Classification and Labelling of Chemicals

Other hazards which do not result in classification: Not known

Section 3. Composition / Information on Ingredients

Common Name Octyl Methoxycinnamate
Synonym(s) 2-ethylhexyl 4-methoxycinnamate; Octyl 4-methoxycinnamate; 2-Ethylhexyl 3-(4-methoxyphenyl)-2-propenoate; 2-Ethylhexyl 3-(4-methoxyphenyl)acrylate; 2-Propenoic acid, 3-(4-methoxyphenyl)-, 2-ethylhexyl ester
CAS Number 5466-77-3

COMPONENT	CAS NUMBER	CONCENTRATION
Octyl Methoxycinnamate	5466-77-3	≥ 98%

Section 4. First Aid Measures

Description of necessary first-aid measures

Inhalation: Remove to fresh air

Skin contact: Wash with soap and plenty of water. Seek medical advice, if necessary

Eye contact: Flush for at least 15 minutes under running water with eyelids held open forcibly. Seek medical advice, if necessary

Ingestion: Immediately rinse mouth and then drink water (two glasses at most). If feeling unwell, after accidental swallowing, consult the doctor

Most important symptoms/effects, acute and delayed: Data not available on toxic symptoms

Indication of immediate medical attention and special treatment needed, if necessary: No information available



Section 5. Firefighting Measures

Suitable extinguishing media: Dry chemical powder, carbon dioxide, foam, water spray

Unsuitable extinguishing media: High volume water jet

Specific hazards arising from the chemical: Development of hazardous combustion products like oxides of carbon or vapors possible in the event of fire

Special protective equipment and precautions for firefighters: Wear personal protective equipment and self-contained breathing apparatus

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Wash hands after exposure with the substance. Avoid contact with skin, eyes and clothing

Environmental precautions: Do not discharge into drains

Methods and materials for containment and cleaning up

Small spill: Absorb with suitable absorbent material. Collect in suitable and properly labeled container.

Large spill: Contain spilled material if possible. Pump into suitable and properly labeled containers. Dispose of absorbed material/collected material in accordance with regulations

Section 7. Handling and Storage

Precautions for safe handling: Follow general occupational hygiene such as, wash hands after use. Do not eat, drink or smoke in work areas. Remove contaminated clothing. Avoid spill. Follow safe procedures for loading and un-loading of product

Conditions for safe storage, including any incompatibilities: Store the material in a clean, dry place at 20-35°C away from direct heat and sunlight. In original sealed condition, when stored as suggested, the shelf life of the product is at least 2.5 years. Color of the product may deteriorate on exposure to sunlight. Keep the container tightly closed after use. Product may solidify, if stored at < -10°C. If solidifies, it is recommended to heat the ISO tank with hot water (55-60°C) jacket or low-pressure steam (< 2 kg/cm²) to bring the temperature 30-40°C. If the product becomes frozen in IBC/HMHDPE carboys, then keep the same in hot room of 30-40°C (avoid direct heating).

Stacking of carboys: Palletized/non-palletized: 1 +1 both while transport and during storage

Stacking of IBC: 1 +1 both while transport and during storage

Suitable packing materials: Blue or black color HMHDPE carboys/Blue or black color IBC/ISO tank

Unsuitable packing materials: White color HMHDPE carboys/White color IBC

Section 8. Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits: Not known

Biological limit values: Not known

Appropriate engineering controls: Proper plant design, technical measures and working operations should minimize human exposure

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety goggles

Skin protection: Apron, rubber gloves and shoes

Respiratory protection: Required when vapors / aerosols are generated

Section 9. Physical and Chemical Properties

Physical state: Clear syrupy oily liquid

Color: Pale yellow

Odor: Mild aromatic

Odor threshold: No data available

pH: Not applicable

Freezing point: < - 10°C

Initial boiling point and boiling range: No data available

Flash point: 204°C

Evaporation rate: No data available

Flammability (solid, gas): Not flammable

Upper/lower flammability or explosive limits: Not applicable

Vapor pressure: 0.3 hPa at 154 °C

Vapor density: No data available

Relative density: 1.005- 1.013 at 25°C

Solubility(ies)

Water solubility: 0.22 - 0.75 mg/l at 21°C

Miscible in: Isopropyl alcohol, ethanol, isopropyl myristate, mineral oil

Immiscible in: Propylene glycol, glycerin

Partition coefficient n-octanol/water: Log K_{OW}: > 6 at 23°C

Auto-ignition temperature: 392°C at 977 mBar

Decomposition temperature: No data available

Viscosity (Brookfield, L VT, #2, 12 rpm): < 100 cps at 28°C

Section 10. Stability and Reactivity

Reactivity: No hazardous reactions, if stored and handled as prescribed (Refer Section 7)

Chemical stability: Stable under normal ambient and anticipated storage and handling conditions

of temperature and pressure

Possibility of hazardous reactions: Not anticipated when used or handled as prescribed

Conditions to avoid: Sunlight, heat, flame and other sources of ignition

Incompatible materials: Do not subject to strong acids, base and strong oxidizing agents

Hazardous decomposition products: Will not form, if stored or handled as prescribed

Section 11. Toxicological Information

Acute oral toxicity (Rat): LD50: > 5000 mg/kg bw

Acute dermal toxicity (Rat): LD50: > 126.3 mg/kg bw (Equivalent or similar to OECD Guideline 402)

Acute inhalation toxicity (Rat): LC50 (4 h): > 0.511 mg/l air (aerosol) (OECD Guideline 403)

Skin corrosion/irritation (Rabbit): No irritation

Serious eye damage/irritation (Rabbit): No irritation

Respiratory or skin sensitization (Guinea pig): No sensitization Guinea pig maximization test (OECD Guideline 406)

Germ cell mutagenicity

Bacterial reverse mutation assay (in vitro): Negative (Equivalent or similar to OECD Guideline 471)

Micronucleus assay (in vivo): Negative (Equivalent or similar to OECD Guideline 474)

Carcinogenicity: Not classified. Carcinogenicity not expected

Reproductive toxicity: Not classified

Effects on fertility (Rat): NOAEL: 450 mg/kg bw/day (nominal) (OECD Guideline 416)

Developmental toxicity/maternal toxicity (Rat): NOAEL: 1000 mg/kg bw/day (Equivalent or similar to OECD Guideline 414)

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Repeated dose toxicity: oral (Rat): NOAEL: 450 mg/kg bw/day (OECD Guideline 408)

Repeated dose toxicity: dermal (Rat): NOAEL: 5000 mg/kg bw/day (Equivalent or similar to OECD Guideline 410)

Repeated dose toxicity: dermal (Rabbit): NOAEL: 1500 mg/kg bw/day (Equivalent or similar to EPA OPPTS 870.3200)

Aspiration hazard: Not classified

Information on the likely routes of exposure: Dermal and oral

Symptoms related to the physical, chemical and toxicological characteristics: Data not available on toxic symptoms

Delayed and immediate effects and also chronic effects from short and long-term exposure

Short term exposure: Not known

Long term exposure: Not known

Section 12. Ecological Information

Toxicity

Short-term toxicity to fish: *Cyprinus carpio* LC50 (96 h): > 100 mg/l (OECD Guideline 203)

Long-term toxicity to fish: No data available

Short-term toxicity to aquatic invertebrates: *Daphnia magna* EC50 (48 h): > 0.027 g/l (OECD Guideline 202)

Long-term toxicity to aquatic invertebrates: No data available

Toxicity to aquatic algae: *Selenastrum capricornutum* EC50 (72 h): > 100 mg/l (based on: growth rate) NOEC (72 h): 32 mg/l (based on: growth rate) (OECD Guideline 201)

Persistence and degradability

Biodegradation in water: Readily biodegradable, 78% after 28 days (O₂ consumption) (Ready Biodegradability: Manometric Respirometry Test) (OECD Guideline 301 F)

Phototransformation in water: Half-life: DT50: 5-9 days (Rate based on degradation from trans and cis-2-Ethylhexyl 4-methoxycinnamate to metabolites) DT50: 0.05 days for trans-to-cis transformation

Quantum yield: < 0.1; Rate constant: $\geq 0.077 - \leq 0.111$ in 1/day Relative light intensity: ca. 0.9

[**Guideline:** EPA Guideline Subdivision N 161-2 Equivalent or similar to OECD Guideline draft (Phototransformation of Chemicals in Water - Direct and Indirect Photolysis)]

Bioaccumulative potential

Species: *Oncorhynchus mykiss*

Total uptake duration: 5 d

Total depuration duration: 9 d

BCF: 279 - 433 at 70 µg/l and 64 -175 at 700 µg/l (depuration DT50: 1.5 to 1.7 days and DT90: 5.0 to 5.5 days) OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

Mobility in soil: Adsorption co-efficient: K₀₀: 13290 l/kg (QSAR calculation)

Other adverse effects: 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

Not classified as dangerous according to transport regulations



Section 15. Regulatory Information

Safety, health and environmental regulations specific for the product in question:

None as per 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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