

OptiSource™

The Optical Supply Resource

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1. Identification

Product identifier used on the label: Dry UV

Other means of identification: 99-DUV

Recommended use: Applying UV coating to lenses

Restrictions on use: Only use in manner described above as recommended use.

Company information

OptiSource
40 Sawgrass Drive
Bellport, NY 11713
+1 631-924-8360

Emergency telephone number

Chemtrec:+1 703-527-3887

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Toxicity Oral Category 4
Eye Dam./Irritation Category 2B
Combustible Dust Category 1

Label elements



Pictogram:

Signal Word: Warning

Hazard Statements:

May form combustible dust concentration in air

Causes eye irritation.

Harmful if swallowed.

Precautionary Statements (Prevention)

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Wash with plenty of water and soap thoroughly after handling.

Response statements:

Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF SWALLOWED: rinse mouth.

If eye irritation persists: Call a POISON CENTER or doctor/physician.

Hazards not otherwise classified

None Known.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

100% of this chemical composition is withheld as a proprietary trade secret.

4. First-Aid Measures

Description of first aid measures

General advice: Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.

If on skin: Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

If in eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If symptoms persist, seek medical advice.

If swallowed: Rinse mouth and then drink plenty of water.

If symptoms persist, seek medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms: Further important symptoms and effects are so far not known. The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

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

Special hazards arising from the substance or mixture Hazards during fire-fighting: carbon monoxide, carbon dioxide, nitrogen oxides

Advice for fire-fighters Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid dust formation.

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

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

Methods and material for containment and cleaning up Spills should be contained in inert material, solidified, and placed in suitable containers for disposal. Dispose of contents in accordance with all local, state and federal regulations.

7. Handling and Storage

Precautions for safe handling Avoid dust formation. Processing machines must be fitted with local exhaust ventilation.

Protection against fire and explosion: Avoid dust formation. The product is capable of dust explosion.

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

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

8. Exposure Controls/Personal Protection

No PEL's listed for components of this mixture.

Advice on system design: It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

Hand protection: Chemical resistant protective gloves

Eye protection: Safety glasses with side-shields.

Body protection: Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures: Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form: powder

Odour: characteristic

Odour threshold: No applicable information available.

Colour: yellow

pH value: of low solubility

Melting point: 195 °C

Boiling point: not applicable

Sublimation point: No applicable information available.

Flash point: not applicable, the product is a solid

Flammability: not flammable

Lower explosion limit: For solids not relevant for classification and labelling.

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

Autoignition: not determined

Vapour pressure: The product has not been tested.

Density: 1.442 g/cm³ (25 °C) Relative density: No applicable information available.

Bulk density: approx. 500kg/m³

Vapour density: No applicable information available.

Partition coefficient n- octanol/water (log Pow): No data available

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

Thermal decomposition: No decomposition if correctly stored and handled.

Viscosity, dynamic: not determined

Viscosity, kinematic: No applicable information available.

Solubility in water: (20 °C) sparingly soluble Solubility (quantitative): No applicable information available.

Solubility (qualitative): soluble

solvent(s): organic solvents

Evaporation rate: The product is a non-volatile solid.

10. Stability and Reactivity

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

Corrosion to metals: No corrosive effect on metal.

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

Minimum ignition energy: No data available.

Reactions with water/air: reacts with water

Flammable gases: no Toxic gases: no Corrosive gases: no Smoke or fog: no Peroxides: no

Reaction with: air Flammable gases: no Toxic gases: no Corrosive gases: no Smoke or fog: no Peroxides: no

Formation of flammable gases: Remarks: 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 Dust explosion hazard.

Conditions to avoid No conditions known that should be avoided.

Incompatible materials strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

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

Thermal decomposition: No decomposition if correctly stored and handled.

11 Toxicological Information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact.

Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity Assessment of acute toxicity: Harmful if swallowed.

Oral Type of value: LD50 Species: rat Value: 1,225 mg/kg Literature data.

Assessment other acute effects Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Skin Species: rabbit Result: non-irritant Method: Draize test

Eye Species: rabbit Result: Irritant.

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

Human data do not fully exclude a skin sensitizing potential.

Mouse Local Lymph Node Assay (LLNA) Species: mouse Result: Non-sensitizing.

Aspiration Hazard No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity Assessment of repeated dose toxicity: No known chronic effects.

Genetic toxicity Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Carcinogenicity Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Teratogenicity Assessment of teratogenicity: No teratogenic effects reported.

Symptoms of Exposure

Further important symptoms and effects are so far not known. The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 4.

12. Ecological Information

Toxicity

Aquatic toxicity Assessment of aquatic toxicity: Acutely harmful for aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

Toxicity to fish LC50 (96 h) 22 - 46 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static) The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates EC50 (48 h) 52.5 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static) The details of the toxic effect relate to the nominal concentration.

Aquatic plants EC50 (72 h) 27.9 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

Toxicity to microorganisms DIN 38412 Part 27 (draft) static bacterium/EC50 (0.5 h): 5,800 mg/l The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.

OECD Guideline 209 aerobic activated sludge, domestic/EC20 (0.5 h): approx. 34 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H2O) The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Elimination information

0 - 10 % DOC reduction (28 d) (OECD 301E; 84/449/EEC, C.3) (aerobic, activated sludge, domestic)

90 - 100 % DOC reduction (28 d) (OECD Guideline 302 B) (aerobic, activated sludge, domestic)

Bioaccumulative potential

Bioaccumulation potential Significant accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is expected.

13. Disposal considerations

Waste disposal of substance: Incinerate in a licensed facility. Do not discharge substance/product into sewer system. Dispose of in a RCRA-licensed facility.

Container disposal: Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: NONE

14. Transport Information

Land transport USDOT

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status: Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Fire (Combustible Dust)

NFPA Hazard codes: Health : 2 Fire: 3 Reactivity: 0 Special:

HMIS III rating

Health: 2 Flammability: 3 Physical hazard: 0

16. Other Information

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Updates made in accordance with implementation of GHS requirements.

Disclaimer:

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