



Specialized in chemicals

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Material Safety Data Sheet

4,5-dichloro-2-n-octyl-3-isothiazolone

Section 1: Chemical Product and Company Identification

Molecular formula: C₁₁H₁₇Cl₂NOS

CAS Nr: 64359-81-5

Molecular weight: 282.23

Synonyms: DCOIT

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
4,5-dichloro-2-n-octyl-3-isothiazolone	64359-81-5	98

Section 3: Hazards Identification

May cause sensitization by skin contact,may cause long-term adverse effects in the aquatic environment.

Classification:Xn;R21/22, C;R34, Xi;R37,R43 ,N;R50

Section 4: First Aid Measures

Immediate first aid treatment reduces the health effects of this substance.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 5: Fire and Explosion Data

Extinguishing media

Recommended: Carbon dioxide, dry chemical powder, or alcohol-resistant foam,water spray.

Not to be used:water jet.

Special risks

Specific Hazard(s): Emits toxic fumes under fire conditions.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing
to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal precautions: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

Spill: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations(see section 13).Do not allow to

enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

Section 7: Handling and Storage

Handling

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage

Conditions of Storage: Keep tightly closed. Keep away from heat, and sunlight.

Section 8: Exposure Controls/Personal Protection

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Nitric acid is an oxidizer and should not come in contact with cartridges and canisters that contain oxidizable materials, such as activated charcoal. Canister-type respirators using sorbents are ineffective.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical Properties

Appearance:

White to off white power

Odor:

Mild.

Solubility:

Infinitely soluble.

Specific Gravity:

N/A

pH:

N/A

Boiling Point:

N/A

Melting Point:

38-44 °C

Section 10: Stability and Reactivity Data

Stability:

Stable under recommended storage and handling conditions(see section 7).

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reaction: Oxidising agents, strong alkalis, strong acids.

Conditions to Avoid:

Heat.

Section 11: Toxicological Information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

See section 2 and 15 for details.

Section 12: Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

Section 13: Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: 4,5-dichloro-2-n-octyl-3-isothiazolone

Hazard Class: 8+6.1

UN/NA: UN2923

Packing Group: III

International (Water, I.M.O.)

Proper Shipping Name: 4,5-dichloro-2-n-octyl-3-isothiazolone

Hazard Class: 8+6.1

UN/NA: UN2923

Packing Group: III

International (Air, I.C.A.O.)

Proper Shipping Name: 4,5-dichloro-2-n-octyl-3-isothiazolone

Hazard Class: 8+6.1

UN/NA: UN2923

Packing Group: III

Section 15: Other Regulatory Information

R-PHRASES: 43

May cause sensitization by skin contact.

S-PHRASES: 2-23-24-37-46-51

Keep out of the reach of children. Do not breathe vapour /spray. Avoid contact with skin. Wear suitable gloves. If swallowed, seek medical advice immediately and show this container or label. Use only in well-ventilated areas.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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