

Section 1. Product and Company Identification

Product Name Dodecyl Trimethyl Ammonium Chloride
CAS Number 112-00-5

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Section 2. Hazards Identification

Classification of the substance or mixture

The product is classified

Xn: R22
C: R34
N: R50

GHS Label Elements

Pictograms:



Signal word: N/A

Hazard and precautionary statements

Human health: Harmful if swallowed. Corrosive to skin and eyes.

Environment: Very toxic to aquatic organisms

Section 3. Composition / Information on Ingredients

Common Name Dodecyl Trimethyl Ammonium Chloride
Synonym(s) Lauryl Trimethyl Ammonium Chloride
CAS Number 112-00-5

COMPONENT	CAS NUMBER	CONCENTRATION
Dodecyl Trimethyl Ammonium Chloride	112-00-5	99 - 100%

Section 4. First Aid Measures

Inhalation: Move into fresh air and keep at rest. Inhalation of aerosols: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. In case of eczema or other skin disorders: Seek medical attention and bring these instructions

Eye contact: Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital. Bring these instructions

Ingestion: Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting.

Section 5. Firefighting Measures

Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials.

Specific Hazards: During fire, gases hazardous to health may be formed. The following can be released: Carbon monoxide and carbon dioxide, Nitrogen oxides, Hydrogen chloride, Ammonia

Protective equipment for firefighters: Wear self-contained respirator. Wear fully protective impervious suit

Section 6. Accidental Release Measures

Personal precautions: Look out! The product is corrosive. Avoid inhalation of spray mist and contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8.

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

Methods for cleaning up

Large spills: Dam and absorb spillage with sand, sawdust or other absorbent.

Small spills: Absorb spillage with suitable absorbent material. Flush contaminated area with plenty of water. For waste disposal, see section 13.

Section 7. Handling and Storage

Safe handling advice: Avoid inhalation of dust and contact with skin and eyes. Observe good chemical hygiene practices. Immediately change drenched clothing

Technical measures: Keep the workplace clean. Use work methods which minimize

Technical precautions: Provide easy access to water supply and eye wash facilities aerosol production

Technical measures for safe storage: No special precautions.

Storage conditions: Store in closed original container. Do not store near heat sources or expose to excessive temperatures

Section 8. Exposure Controls / Personal Protection

Engineering measures: Provide adequate ventilation. The risk of inhalation of dust must be minimized as much as possible. An eye wash bottle must be available at the work site

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment

Respiratory equipment: During dust-raising work: Use respiratory equipment with particle filter, type P2. The use of filtering respirators should be limited to max. 3 hours per day.

Hand protection: Risk of contact: Wear protective gloves. Nitrile gloves are recommended

Eye protection: Wear goggles/face shield

Skin protection: Wear apron or protective clothing in case of splashes.

Hygiene measures: Wash hands after contact

Environmental Exposure Controls: Not available

Section 9. Physical and Chemical Properties

Appearance: A white or almost white powder

Odor: Not available

pH: Not available

Melting point: Not available

Boiling point: Not available

Flash point: Not relevant

Explosion limits: Not relevant

Relative density: approx. 0.98

Solubility: Miscible with: Water and lower alcohols

Section 10. Stability and Reactivity

Stability: Stable under normal temperature conditions.

Conditions/materials to avoid: Heating. Strong oxidizing substances

Hazardous decomposition products: If heated to more than 200°C, the following substance(s) will be released: Methyl chloride

Section 11. Toxicological Information

Inhalation: Aerosols may be corrosive.

Skin contact: Causes burns. Repeated or prolonged contact with skin may cause allergic reactions in sensitive individuals

Eye contact: Corrosive. Immediate first aid is necessary. Risk of serious damage to eyes

Ingestion: Harmful if swallowed. Causes burns. Causes stomach pain, vomiting, diarrhea and convulsions

Specific effects: None known

Section 12. Ecological Information

Mobility: The product is water soluble and may spread in water systems

Degradability: The product is expected to be biodegradable

Ecotoxicity: Very toxic to aquatic organisms.

Dodecyltrimethylammonium chloride ($0.01 < LC50 \leq 0.1$ mg/l)

LC50: (Danio rerio, 96 hours): 23 mg/l (OECD Test Guideline 203)

EC50: (Daphnia magna, 48 hours): 0.052 mg/l (OECD Test Guideline 202)

IC50: (Pseudokirchneriella subcapitata, 72 hours): 0.017 mg/l (OECD Test Guideline 201)

Bioaccumulative potential

Bioaccumulation: Is not expected to be bioaccumulable

Other adverse effects: None known

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

UN-number: 3077

Proper shipping name: corrosive liquid, acidic, organic, n.o.s. (Dodecyltrimethylammonium chloride)

Sea (IMDG)

Class: 9

PG: III

MP: Yes

EmS: F-A, S-B

MFAG: 1

Inland waterways: To be handled locally



Air (ICAO/IATA)

Class: 9

PG: III

Land (RID/ADR)

Class: 9

Packing group: III

Primary risk label: 9

Subsidiary risk label: -

Section 15. Regulatory Information

Labelling

Contains: Dodecyl Trimethyl Ammonium Chloride

Corrosive: Dangerous to the environment

R22: Harmful if swallowed.

R34: Causes burns.

R50: Very toxic to aquatic organisms.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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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