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Material Safety Data Sheet

3-chloro-2hydroxypropyl trimethyl ammonium chloride

Section 1: Chemical Product and Company Identification

【Chemical name】 3-chloro-2hydroxypropyl trimethyl ammonium chloride

【CAS】 3327-22-8

【EINECS No】 222-048-3

【Molecular Formula】 C₆H₁₅Cl₂NO

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Section 2: Composition and Information on Ingredients

Product Name	CAS#	Weight
3-chloro-2hydroxypropyl trimethyl ammonium chloride	3327-22-8	60 WT. %

Section 3: Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Not hazardous according to Directive 67/548/EEC.

Section 4: First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious

amounts of water.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5: Fire and Explosion Data

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

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

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation.

Avoid contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

Section 8: Exposure Controls/Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type

ABEK (EN 14387) respirator cartridges.
Hand Protection: Protective gloves.
Eye Protection: Chemical safety goggles.

Section 9: Physical and Chemical Properties

Appearance Physical State: Liquid
Property Value At Temperature or Pressure
pH 2,0. - 6,0.
BP/BP Range N/A
MP/MP Range 188,000 ° C
Flash Point 113,000 ° C Method: closed cup
Flammability N/A
Autoignition Temp N/A
Oxidizing Properties N/A
Explosive Properties N/A
Explosion Limits N/A
Vapor Pressure N/A
SG/Density 1,1540 g/cm³
Partition Coefficient N/A
Viscosity N/A
Vapor Density N/A
Saturated Vapor Conc. N/A
Evaporation Rate N/A
Bulk Density N/A
Decomposition Temp. N/A
Solvent Content N/A
Water Content N/A
Surface Tension N/A
Conductivity N/A
Miscellaneous Data N/A
Solubility N/A

Section 10: Stability and Reactivity Data

STABILITY

Stable: Stable.

Conditions to Avoid: Keep solution acidic (pH < 6).

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide,
Nitrogen oxides, Hydrogen chloride gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

RTECS NUMBER: BP5275400

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Section 12: Ecological Information

No data available.

Section 13: Disposal Considerations

SUBSTANCE DISPOSAL

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. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

Section 15: Other Regulatory Information

Not hazardous according to Directive 67/548/EEC.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 2

Self-Classification

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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