



MSDS - Choline Chloride

Rev. July 27, 2011

Section 1. Product Identification

Synonyms: Ethanaminium, 2-hydroxy-N,N,N-trimethyl-,chlorides; Biocolina; Hepacholine; Lipotril; Choline Chlorhydrate

CAS No.: 67-48-1

Molecular Weight: HOCH₂CH₂N(CH₃)₃CL

Distributed by: Pestell Minerals & Ingredients, New Hamburg, ON Canada N3A 2H1

Emergency Phone (Canutec): 613-996-6666

Section 2. Composition/Information on Ingredients

Ingredient: 98 - 100% Choline Chloride Hazardous: Yes

Section 3. Hazards Identification

Emergency Overview

CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT

Potential Health Effects: Information on the human health effects from exposure to this substance is limited

Inhalation: No information found, but compound should be handled as a potential health hazard.

Ingestion: No information found, but compound should be handled as a potential health hazard.

Skin Contact: May cause irritation with redness and pain.

Eye Contact: May cause irritation, redness and pain

Chronic Exposure: No information found

Aggravation of Pre-Existing Conditions: No information found

Section 4. First Aid Measures

Inhalation

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion

Give several glasses of water to drink to dilute. If large amounts were swallowed get medical advice.

Skin Contact

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention if irritation persists.

Section 5. Fire Fighting Measures

Fire: As with most organic solids fire is possible at elevated temperatures or by contact with an ignition source.

Explosion: Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide

Special Information: In the event of a fire, wear full protective clothing and NIOSH approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section 6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Clean up spills in a manner that does not disperse dust into the air. Use non sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

Section 7. Handling and Storage

Keep in a tightly closed container stored in a cool dry ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers for this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. 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): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particular respirator (NIOSH type N95 or better filters) may be worn. If oil particles (eg lubricants, cutting fluids, glycerine, etc) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full face positive pressure air supplied respirator.

WARNING! Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick drench facilities in work area.

Section 9. Physical & Chemical Properties

Appearance: White crystals

Odor: Slight amine odor

Solubility: Soluble in water

Specific Gravity: No information found

pH: Aqueous solution is neutral or slightly acid

% Volatiles: 0

Boiling Point: No information found

Melting Point: 244-247 degrees C

Vapor Density: No information found

Section 10. Stability & Reactivity

Stability: Stable under normal conditions of use and storage

Hazardous Decomposition Products: May produce carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen chloride when heated to decomposition

Hazardous Polymerization: Will not occur

Incompatibilities: Strong oxidizers

Conditions to Avoid: Heat, flames, ignition sources and incompatibilities

Section 11. Stability & Reactivity

Oral rat LD50: 3400 mg/kg investigated as a mutagen

Section 12. Ecological Information

No information found

Section 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. 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

Not regulated

Section 15. Other Information

Label Warning

CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Label Precautions: Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Label First Aid: If swallowed induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. Get medical attention if irritation develops or persists.

Disclaimer

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[Return to previous page](#)