



Material Safety Data Sheet



CHOLINE CHLORIDE 60%

Chemical Product and Company Identification

Product Name: Choline chloride 60%

TSCA: TSCA 8(b) inventory: Choline chloride

Synonym: 2-Hydroxy-N,N,N-trimethylethanaminium chloride

Chemical Formula: $C_5H_{14}ClNO$

Contact Information:

Swiss Chemie
Hertensteinstrasse 51,
6004 Luzern,
Switzerland
www.swisschemie.com
Sales@swisschemie.co

Composition and Information on Ingredients



Name	CAS #	% by Weight
Choline chloride	67-48-1	60%

Toxicological Data on Ingredients: Choline chloride: ORAL (LD50): Acute: 3400 mg/kg [Rat].

Hazards Identification



Potential Acute Health Effects: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS : Not available.

MUTAGENIC EFFECTS : Not available.

TERATOGENIC EFFECTS : Not available.

DEVELOPMENTAL TOXICITY : Not available.

The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

First Aid Measures



Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Fire and Explosion Data



Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), halogenated compounds.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in **presence of static discharge:** Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Accidental Release Measures

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Handling and Storage

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing In p. 2

case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Exposure Controls/Personal Protection



Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Physical and Chemical Properties



Physical state and appearance: Granular Powder

Odor	: Not available.
Taste	: Not available.
Molecular Weight	: 139.62 g/mole
Color	: tannish brown
pH (1% soln/water)	: 5 [Acidic.]
Boiling Point	: Not available.
Melting Point	: 310°C
Critical Temperature	: Not available.
Specific Gravity	: Not available.
Vapor Pressure	: Not applicable.
Vapor Density	: 1.3 g/cm ³ .
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: See solubility in water.
Solubility	: Soluble in cold water.

Stability and Reactivity Data



Stability	: The product is stable.
Instability Temperature	: Not available.
Conditions of Instability	: Not available.
Incompatibility with various substances:	Not available.
Corrosivity	: Non-corrosive in presence of glass.
Special Remarks on Reactivity	: Not available.
Special Remarks on Corrosivity	: Not available.
Polymerization	: No.

Toxicological Information



Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 3400 mg/kg [Rat].

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Ecological Information



Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Disposal Considerations



Waste Disposal:

Transport Information



DOT Classification: Not a DOT controlled material.

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Fire-fighting Measures



Flash Point: Not applicable Avoid Temperatures above 392°F (200°C)

Ignition temperature: Not applicable

Flammable limits: Not applicable

This material will burn if exposed to extreme temperatures. No uniquely hazardous products are expected, but on burning, this material will produce carbon monoxide, carbon dioxide, nitrous oxides, water and smoke or soot.

Extinguishing media: Chemical Powder, Carbon Dioxide, Chemical foam or water fog.
No unusual fire or explosion hazard.

Federal and State Regulations: TSCA 8(b) inventory: Choline chloride

Other Regulations: Not available

Other Classifications:

DSCL (EEC): R36/38- Irritating to eyes and skin.

Health Hazard : 2

Fire Hazard : 1

Reactivity : 0

Personal Protection : E

Health : 2

Flammability : 1

Reactivity : 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Other Information

SARA TITLE III, Section 313 Toxic Chemicals: none

PROPOSITION 65: None.

Created 22/08/2022 02:30 PM

Last Updated 25/06/2023 01.15 PM

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