



MATERIAL SAFETY DATA SHEET

Products: **ChlorAC™**

Cat. No. 1700-0132

Section I - General

CAS#: Chloroacetic acid [79-11-8], potassium acetate [127-08-2]
FORMULA: $C_2H_3ClO_2$, $C_2H_3KO_2$
CHEMICAL NAME: Aqueous Solution of chloroacetic acid, 13% wt/v
SYNONYMS: Monochloroacetic acid
CHEMICAL FAMILY: Aqueous acid solution

Section II - Hazardous Ingredients

1: Contains 13% wt chloroacetic acid in water

Section III - Physical Data

MELTING POINT: $-7^{\circ}C$
BOILING POINT: $102^{\circ}C$
APPEARANCE: Clear, colorless solution with a strong, pungent odor characteristic of vinegar
SOLUBILITY: Aqueous solution

Section IV - Toxicity Data

RTECS #: AF8575000
RTECS NAME: Chloroacetic acid
TOXICITY: Toxicity data are for crystalline chloroacetic acid (99 + %). ChlorAC is 13% wt/v chloroacetic acid. Oral-rat LD_{50} : 580 mg/kg; lhl-rat LD_{50} : 180 mg/m³; lpr-rat LD_{50} : 16600 µg/kg; Scu-rat: 5 mg/kg; lvn-rat LD_{50} : 55 mg/kg; Scu-mus LD_{50} : 250 mg/kg.
REVIEWS: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data for crystalline chloroacetic acid (99 + %) are presented here. Refer to actual entry in RTECS for complete information.

Section V - Health Hazard and First Aid

ACUTE EFFECTS: May be fatal if inhaled, swallowed, or absorbed through skin. Material is extremely destructive to the eyes, skin, and tissue of the mucous membranes and upper respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, and edema of the larynx and bronchi; chemical pneumonitis; and pulmonary edema. Symptoms of exposure include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Target organs: central nervous system, heart, skeletal muscle, and kidneys.



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CHRONIC EFFECTS: The chemical, physical and toxicological properties have not been thoroughly investigated.

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes; assure adequate flushing by separating eyelids with fingers. Get medical assistance.

SKIN CONTACT: Immediately wash with copious amounts of water and soap. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical assistance.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical assistance.

INGESTION: Wash out mouth with water provided victim is conscious. Get medical assistance.

Section VI - Fire and Explosion Hazards

FLASHPOINT: Not flammable.

EXTINGUISHING MEDIA: Water spray; dry chemical; carbon dioxide; alcohol or polymer foam.

FIREFIGHTING PROCEDURE: Wear self-contained breathing apparatus and protective clothing to protect contact with skin and eyes.

UNUSUAL HAZARDS: Emits toxic fumes (see below) under fire conditions.

EXPLOSIVE PROPERTIES: Non-explosive.

Section VII - Reactivity

GENERAL: Stable

INCOMPATIBILITIES: Keep from contact with oxidizing agents, bases, and reducing agents.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Emits toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride gas and phosgene gas.

Section VIII - Spill or Leak Procedures

SPILL PROCEDURE: Wear safety goggles and gloves. Neutralize spill with sodium bicarbonate, slaked lime, or crushed lime stone. Absorb neutralized spill with chemical sorbent, vermiculite, or saw dust. Sweep up, place in a plastic bag, and hold for waste disposal. Wash spill-site with soap and water.

WASTE DISPOSAL: This product may be mixed or dissolved in a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local regulations.

Section IX - Precautions for Handling and Storage

SAFETY EQUIPMENT: Chemical safety goggles, laboratory coat, rubber / latex / vinyl gloves, safety-shower with eye-wash.

HANDLING



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PROCEDURES: Avoid eye and skin contact and inhalation. Do not ingest. Wear safety glasses and gloves. Wash thoroughly after handling.

STORAGE

PROCEDURES: Keep tightly closed. Store in cool place.

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