



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Zinc Trifluoromethanesulfonate**  
PRODUCT NUMBER: 3897  
CAS NUMBER: 54010-75-2  
SYNONYMS: Trifluoromethanesulfonic acid zinc salt, Zinc triflate

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H314	Causes severe skin burns and eye damage.
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### Precautionary Phrases

P260	Do not breath dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induct vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.

### HMIS CLASSIFICATION:

Health: 3      Fire: 0      Reactivity Hazard: 0

### NFPA RATING:

Health: 3      Flammability: 0      Reactivity Hazard: 0

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** Causes serious eye damage.

**SKIN CONTACT:** Causes severe skin burns.

**INHALATION:** Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

**INGESTION:** May be harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $(CF_3SO_3)_2Zn$

Molecular Weight: 363.53

CHEMICAL NAME	CAS#	%
Zinc trifluoromethanesulfonate	54010-75-2	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Rinse with plenty of water for at least 15 minutes. Consult a physician.

**SKIN EXPOSURE:** Immediately flush with soap and plenty of water. Seek immediate medical attention.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** No data available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides, sulfur oxides, hydrogen fluoride, and zinc oxides.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid breathing dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Use neutralizing agent. Without creating dust sweep up and place in container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid formation of dusts.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store away from oxidizing agents, strong bases, water, and moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure control limit values.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White-beige powder

**ODOR:** Not available

**MOLECULAR WEIGHT:** 363.53

**BOILING POINT:** Not available

**MELTING POINT:** >300°C

**SPECIFIC GRAVITY:** Not available

**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Moisture

**INCOMPATIBILITY:** Water, moisture, bases, and oxidizing agents.

**DECOMPOSITION PRODUCTS:** Carbon oxides, sulfur oxides, hydrogen fluoride, and zinc oxides.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Swallowing may lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:**

**RTECS:** No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN3261

Corrosive solid, acidic, organic, n.o.s.

(Zinc trifluoromethanesulfonate)

CLASS 8

PG II

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**DSCL (EEC):** Listed on the DSCL inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Acute Health Hazard

**SARA (TITLE 313):** Zinc trifluoromethanesulfonate

**CALIFORNIA PROP. 65:** Not Listed

**PENNSYLVANIA RIGHT TO KNOW:** Zinc trifluoromethanesulfonate

**NEW JERSEY RIGHT TO KNOW:** Zinc trifluoromethanesulfonate

**WHMIS CANADA:** Class D-2B: Toxic material causing other toxic effects. Class E: Corrosive material

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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