



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Gallium (III) Chloride, anhydrous**

PRODUCT NUMBER: 1873

CAS NUMBER: 13450-90-3

SYNONYMS: Gallium trichloride, trichlorogallium

MANUFACTURER:

Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

Precautionary Phrases

P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/face protection/eye protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce 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.

HMS CLASSIFICATION:

Health: 3 Fire: 0 Reactivity Hazard: 1

NFPA RATING:

Health: 3 Flammability: 0 Reactivity Hazard: 2 Special Hazard: W

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Dust and vapors may cause burns to the eyes and blindness.

SKIN CONTACT: Corrosive to skin. Contact can lead to redness, pain, blistering, ulceration, and scar formation. Causes severe skin burns.

INHALATION: Inhalation of choking fumes may result in severe irritation of the respiratory tract, chemical pneumonitis and pulmonary edema.

INGESTION: Harmful if swallowed. May cause burns to the gastrointestinal system.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: GaCl₃

Molecular Weight: 176.08

CHEMICAL NAME	CAS#	%
Gallium (III) Chloride	13450-90-3	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use dry powder, carbon dioxide, or sand. Do not use water.

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

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen chloride gas and gallium oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. 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 suitable container for proper disposal. Do not flush with water or aqueous cleansing agent.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Handle under dry protective gas.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Keep away from incompatible materials. Store under dry inert gas. This product is moisture sensitive – protect from humidity and water.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

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

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

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 crystalline solid

ODOR: Not available

MOLECULAR WEIGHT: 176.08

BOILING POINT: 201° C

MELTING POINT: 78° C

SPECIFIC GRAVITY: 2.47 gm/ml

SOLUBILITY: Reacts with water and decomposes

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Moisture sensitive

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Avoid moisture and active metals.

INCOMPATIBILITY: Oxidizing agents, bases, water, moisture, and active metals.

DECOMPOSITION PRODUCTS: Hydrogen chloride gas and gallium oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Intravenous – rat – 47mg/kg. LD50 Subcutaneous – rat – 306mg/kg. LCLo Inhalation – rat – 316mg/m³/3h.

LD50 Parental – rat – 1408mg/kg. LD50 Intraperitoneal – mouse – 36975µg/kg. LD50 Intravenous – dog – 41mg/kg. LD50

Subcutaneous – rabbit – 245mg/kg. LD50 Intravenous – rabbit – 43mg/kg. Bacteria-Bacillus subtilis; DNA repair: 2350µg/disc.

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

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

RTECS: LW9100000

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

UN3260

Marine Pollutant: No

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

(Gallium (III) chloride)

CLASS 8

PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Gallium (III) chloride

SARA 311/312: Acute Health Hazard

SARA (TITLE 313): Not listed

CALIFORNIA PROP. 65: Not Listed

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Gallium (III) chloride

NEW JERSEY RIGHT TO KNOW COMPONENTS: Gallium (III) chloride

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Gallium (III) chloride

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.

DATE PREPARED: 07/15

SDS DEPT.