



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Yttrium Chloride Tetrahydrofuran Complex**

PRODUCT NUMBER: 3848

CAS NUMBER: 84147-94-4

SYNONYMS: Yttrium trichloride tris (tetrahydrofuran)

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H228	Flammable solid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.

SECTION 2 HAZARDS IDENTIFICATION (CONT.)

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.
P307+P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
P403+P233	Store in well-ventilated place. Keep container tightly closed.

EYE CONTACT: Causes mild to serious eye irritation.

SKIN CONTACT: Causes skin irritation.

INHALATION: May cause respiratory irritation.

INGESTION: May cause irritation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{YCl}_3(\text{THF})_3$

Molecular Weight: 411.58

CHEMICAL NAME	CAS#	%
Yttrium Chloride Tetrahydrofuran Complex	84147-94-9	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: Take off contaminated clothing. Wash off with soap and plenty of water. Consult a physician.

INHALATION: Remove victim 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: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: No data available

AUTO IGNITION TEMPERATURE: No data available

EXPLOSION LIMITS: No data available

EXTINGUISHING MEDIUM: Use dry sand, alcohol-resistant foam, dry chemical to extinguish.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen chloride gas, yttrium oxides, and carbon oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid dust formation. Avoid breathing dust, mist, vapors, or spray. Remove all sources of ignition.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage and do not let enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in suitable containers for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Avoid formation of dust or aerosols. Provide appropriate exhaust ventilation. Keep away from sources of ignition.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Moisture and air sensitive.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White to off-white solid

MOLECULAR WEIGHT: 411.58

MELTING POINT: 98° C

BOILING POINT: No data

SPECIFIC GRAVITY: No data

VAPOR PRESSURE: No data

SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: Heat, flames, and sparks. Contact with moisture.

INCOMPATIBILITY: Strong oxidizing agents.

DECOMPOSITION PRODUCTS: Hydrogen chloride gas, yttrium oxides, and carbon oxides.

SECTION 11 TOXICOLOGICAL DATA

RTECS DATA: No information available in the RTECS files.

CARCINOGENIC EFFECTS: No data

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

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

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1325

Flammable solids, organic, n.o.s.

4.1

II

SECTION 15 REGULATORY INFORMATION

SARA (TITLE 313): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 HAZARDS: Fire Hazard, Acute Health Hazard.

MASSACHUSETTS RIGHT TO KNOW COMPONENT: No components are subject to the Massachusetts Right to Know Act.

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemical known to State of California to cause cancer, birth defects, or any other reproductive harm.

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: 03/23

SDS DEPT.