



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Yttrium (III) Sulfide**

PRODUCT NUMBER: 3871

CAS NUMBER: 12039-19-9

### MANUFACTURER:

Prochem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H261	In contact with water releases flammable gas.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary Phrases

P231+P232	Handle under inert gas. Protect from moisture.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

### HMS CLASSIFICATION:

Health: 2      Fire: 1      Reactivity Hazard: 1

### NFPA RATING:

Health: 2      Flammability: 1      Reactivity Hazard: 1

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

**SKIN CONTACT:** Causes skin irritation.

**INHALATION:** May cause respiratory tract irritation.

**INGESTION:** Gastric juices may cause release of toxic hydrogen sulfide.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $Y_2S_3$

Molecular 273.93

CHEMICAL NAME	CAS#	%
Yttrium (III) Sulfide	12039-19-9	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:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

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

**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 available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use carbon dioxide or dioxide. Do NOT use water. Contact with water liberates extremely flammable gases.

**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 sulfide, sulfur oxides, and yttrium oxides.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust. Keep away from sources of ignition

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Cover spill with dry sodium carbonate or dolomite. Sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

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

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

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Yttrium	1 mg/m <sup>3</sup>	TLV	ACGIH
	1 mg/m <sup>3</sup>	PEL	OSHA

TLV: Threshold Limit Value over 8 hours of work.

PEL: Permissible Exposure Limit

**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:** Yellow powder  
**ODOR:** Like rotten eggs  
**MOLECULAR WEIGHT:** 273.93  
**BOILING POINT:** No data available  
**MELTING POINT:** No data available  
**SPECIFIC GRAVITY:** No data available  
**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** In contact with water releases flammable gases which may ignite spontaneously  
**HAZARDOUS POLYMERIZATION:** Reacts with water and acids.  
**CONDITIONS TO AVOID:** Contact of dust cloud with an ignition source. Contact with water liberates extremely flammable gases.  
**INCOMPATIBILITY:** Active metals, mineral acids, oxidizing agents, water, and moisture.  
**DECOMPOSITION PRODUCTS:** Hydrogen sulfide, sulfur oxides, and yttrium oxides.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available  
**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  
**TETRAOGENIC EFFECTS:** Not available  
**CHRONIC TOXICITY:** Not available  
**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 information available

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

UN3134  
Water-reactive solid, toxic, n.o.s.  
(Yttrium (III) sulfide)  
CLASS 4.3 (6.1)  
PG II

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory  
**SARA 302/304:** Not Listed  
**SARA 311/312:** Not Listed  
**SARA (TITLE 313):** Not Listed  
**CALIFORNIA PROP. 65:** Not Listed

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 05/15

SDS DEPT.