

# SAFETY DATA SHEET

Date Printed: 05/16/2024

Date Revised: 01/15/2022

---

## SECTION 1. IDENTIFICATION

**Product Identifier:** (2N) 99% Ytterbium Carbonate

**Product Code:** YB-CB-02

**CAS Number:** 5895-52-3

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

---

## SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance according to the GHS

HMIS CLASSIFICATION:

Health: 1

Flammability: 0

Reactivity: 1

NFPA RATING:

Health: 1

Fire: 0

Reactivity Hazard: 1

EYE CONTACT:

Dust may cause irritation of the eyes.

SKIN CONTACT:

May cause irritation of the skin.

INHALATION:

Inhalation of dust may lead to irritation of the respiratory tract.

INGESTION:

No data available

---

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula:  $\text{Yb}_2(\text{CO}_3)_3$   
Ytterbium carbonate  
5895-52-3

---

## SECTION 4. FIRST AID MEASURES

### EYE EXPOSURE:

Immediately flush the eyes with copious amounts of water (lukewarm if possible).  
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 the 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. Seek medical assistance immediately

---

## SECTION 5. FIREFIGHTING MEASURES

### FLASH POINT:

Product is not flammable.

### Autoignition:

N/A

### EXPLOSION LIMITS:

N/A

### EXTINGUISHING MEDIUM:

Use fire fighting measures that suit the surrounding fire.

### 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:

Carbon monoxide and ytterbium oxide fume

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Wear approved personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

### ENVIRONMENTAL PRECAUTIONS:

Do not let product enter drains or allow to be released to the environment.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

In the case of a spill, vacuum or sweep up and place in a well-marked container for disposal. Avoid raising dust.

---

## SECTION 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Wear approved personal protective equipment. Provide appropriate exhaust ventilation at places where dust is formed.

### CONDITIONS FOR SAFE STORAGE:

Keep container tightly sealed container. Store in a cool and dry area.

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EYE PROTECTION:

Always wear approved safety glasses with side shields, safety goggles, or face shield when handling a chemicals 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 29 CFR 19-10.134.

---

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### COLOR AND FORM:

White crystal

### MELTING POINT:

No data available

### BOILING POINT:

No data available

### MOLECULAR WEIGHT:

526.11(anhy.)

### ODOR:

Odorless

### SPECIFIC GRAVITY:

No data available

### VAPOR PRESSURE:

N/A

### SOLUBILITY IN WATER:

Insoluble

---

## SECTION 10. STABILITY AND REACTIVITY

### STABILITY:

Stable

### HAZARDOUS POLYMERIZATION:

Will not occur

### CONDITIONS TO AVOID:

Slightly hygroscopic. Moisture and water

### INCOMPATIBILITY:

Acids and strong oxidizing agents.

#### DECOMPOSITION PRODUCTS:

Carbon monoxide, Carbon dioxide, and ytterbium oxide.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### CARCINOGENIC EFFECTS:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

#### 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 INFORMATION

No data available

---

### SECTION 13. DISPOSAL CONSIDERATIONS

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

---

### SECTION 14. TRANSPORT INFORMATION

Non-hazardous material

---

### SECTION 15. REGULATORY INFORMATION

TSCA: No data available

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.

RCRA:

Not considered a hazardous waste.

CALIFORNIA PROP. 65 COMPONENTS:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

### 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the

product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.