

For chemical emergency, spill, leak, fire, exposure, or accident,  
call Chemtrec - day or night 1-800-424-9300

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF PRODUCT

**Manufacturer's Name:** Continental Sulfur  
Company, LLC  
P.O.Box 191  
Kilgore, TX 75662

**Emergency Phone No:** Chemtrec  
(800) 424-9300  
(24 hours)

**Trade Name  
and Synonyms:** CSC Thioben 90

**Chemical Name  
and Synonyms:** Sulfur

**Chemical Family:** Sulfur

**EPA Registration  
Number:** 55429-4

**Unusual Fire and Explosion Hazards:** Contain run  
off by diking to prevent contamination of water  
supplies. Dusts may form explosive mixtures with  
air. Temperature

#### NFPA Hazard Rating

|   |          |   |              |
|---|----------|---|--------------|
| 0 | Least    |   |              |
| 1 | Slight   | 2 | Health       |
| 2 | Moderate | 1 | Flammability |
| 3 | High     | 1 | Reactivity   |
| 4 | Severe   |   |              |

### 2. PRODUCT COMPONENTS

| Component:                    | %    | Threshold Value<br>(units): |
|-------------------------------|------|-----------------------------|
| Sulfur<br>(CAS No. 7704-34-9) | 90.0 | None established            |

Contains no substances  
listed as toxic by SARA  
313. Contains no substances  
known to be carcinogens. 10.0 —

### 3. PHYSICAL INFORMATION

**Appearance and Odor:** Solid amber crystals,  
characteristic odor

**Solubility in Water:** Insoluble

**Bulk Density:** 30 - 40 lbs./cu.ft.

**Melting Point:** 115 °C/214 °F

### 4. FIRE AND EXPLOSION HAZARD INFORMATION

**Flash Point (test method):** 207 °C (INRS)

Explosive Limits in Air:  
Lower -35 g/m<sub>3</sub>  
Upper - 1400 g/m<sub>3</sub>

**Fire Extinguishing Media:** Dry chemical, carbon  
dioxide, foam, water spray or fog

**Auto Ignition Temperature:** 232 °C

**Special Fire Fighting Procedures:** Use self-contained  
breathing apparatus.

### Hazards Classification (40CFR370):

**Immediate Health:** YES

**Delayed Health:** NO

**Fire:** YES

**Sudden Pressure:** NO

**Reactivity:** NO

**Section 313 (40CFR372):** This product contains the  
following chemicals subject to SARA Section 313  
reporting requirements: Sulfur.

### 5. REACTIVITY INFORMATION

**Stability:** Stable

**Conditions to Avoid:** Strong oxydizers

**Hazardous Decomposition**

**Products:** None

**Hazardous Polymerization:** None

**Conditions to Avoid:** Open flames, sparks, ignition  
sources

### 6. HEALTH INFORMATION

#### Toxicological Test Data:

**Oral (Acute)**

LD<sub>50</sub>> 2,000 mg/kg

**Dermal (Acute)**

LD<sub>50</sub>> 2,000 mg/kg

**Inhalation (Acute)**

LC<sub>50</sub>> 1.35 mg/L (4HR)

**Chronic, Subchronic, etc.**

There are no known risks of oncogenic,  
teratogenic or reproductive hazards  
associated with sulfur.

CSC90.214

**Effects of Overexposure:** Route of entry: ingestion, inhalation, eyes and skin contact. Most likely route of entry: dermal, inhalation. Product is considered to be of low to moderate toxicity. May be harmful if swallowed or inhaled. May cause irritation of eyes, nasal passages, throat and skin. Prolonged or repeated exposure may increase irritation, particularly to eyes and mucous membranes. Overexposure can lead to nausea, diarrhea, gastrointestinal distress, headaches, weakness, and in severe cases possible liver and kidney damage.

**Emergency and First Aid Procedures:** *Call a physician immediately in all cases of suspected poisoning,*

**Ingestion:** Induce vomiting; give plenty of water.

**Eyes:** Flush with plenty of water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention.

**Skin:** Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse.

**Inhalation:** Remove to fresh air. If irritation persists, get medical attention.

**Medical Conditions Aggravated by Exposure:** Preexisting skin or respiratory disorders may be aggravated by excessive exposure to this material,

**Potential Carcinogen Status:** None listed by IARC, NTP or OSHA.

## 7. SPILL OR LEAK PROCEDURES

**Steps to Be Taken in Case Material is Leaked or Spilled:** Contain spill; vacuum, scoop or sweep up and place in container for disposal.

**Waste Disposal Method:** Check local, state and Federal regulations for disposal.

## 8. SPECIAL PROTECTION INFORMATION

**Protective Clothing:**

**Eye Protection (Type):** Safety goggles

**Gloves (Type):** Rubber gloves

**Respiratory Protection:** If dusts exceed acceptable levels, or if irritation occurs, wear MSHA/NIOSH-approved mask or respirator for protection against pesticide dust.

**Other Clothing:** Long-sleeved shirt and long pants, shoes and socks.

**Ventilation:**

**Local Exhaust:** Provide in confined areas

**Mechanical (General):** If ventilation is not adequate, provide vents

**Special:** Not normally required

**Other:** Work in a well-ventilated area

## EPA HANDLER REQUIREMENTS

**Worker Protection Standard  
40 CFR 170**

**Note:** the following PPE requirements address handler/applicator requirements under FIFRA and may differ from what is felt necessary to address a clean up, needs during formulation/manufacturing or other times of involvement with the product.

**Personal Protective Equipment:** Applicators and other handlers must wear long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry

## 9. SPECIAL PRECAUTIONS

**Handling and Storage:** Store in a cool, dry place away from children, food and feed products. Keep work and storage area clean

**Other Precautions:** Toxic to fish and other aquatic organisms.

## 10. REGULATORY INFORMATION

**SARA TITLE III HAZARD CATEGORY:**

**Immediate:** YES

**Delayed:** NO

**Fire:** YES

**Reactive:** NO

**Sudden Release of Pressure:** NO

**SUBSTANCES REGULATED UNDER SARA, TITLE III, SECT. 313:**

**DATE OF ISSUE:** 7/15/2000

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