

# MATERIAL SAFETY DATA SHEET

24HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

Manufacturer: ProChem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

Phone: (815) 398-1788  
Fax: (815) 398-1810  
E-Mail: Prochem1@aol.com

---

## SECTION 1 Product Identification

---

**CHEMICAL NAME:** Selenium (IV) oxide  
**CAS#:** 7446-08-4  
**FORMULA:** SeO<sub>2</sub>  
**SYNONYM:** Selenious anhydride

---

## SECTION 2 Composition and Information on Ingredients

---

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7446-08-4	100	0.2mg/m <sup>3</sup> (as Se)	0.2mg/m <sup>3</sup> (as Se)

---

## SECTION 3 Hazards Identification

---

**EMERGENCY OVERVIEW:** Inhalation of selenium compounds may cause shortness of breath, garlic odor, chills and headache. Chronic exposure may result in nervous system disorders, liver and kidney disease.

**PRIMARY ROUTES OF EXPOSURE:** Contact with skin and eyes. Dust inhalation.

**EYE CONTACT:** May cause mild to moderate irritation of the eyes.

**SKIN CONTACT:** May cause irritation of the skin, and upon repeated contact, dermatitis.

**INHALATION:** Inhalation of dust can cause garlic odor and shortness of breath, chills, headache, and delayed pulmonary edema.

**INGESTION:** Ingestion may lead to nausea, vomiting, bloody diarrhea, weakness, and chronic diseases.

**CHRONIC HEALTH EFFECTS:** Prolonged exposure to selenium compounds may cause dermatitis, diarrhea, liver damage, nervous disorders, lameness, and loss of vitality. Equivocal tumorigenic agent by RTECS criteria. Reproductive effector.

**ACUTE HEALTH EFFECTS:** May be irritating to skin, eyes and respiratory tract, and cause nausea, vomiting, bloody diarrhea, weakness, chills, headache, and delayed pulmonary edema.

---

## 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.