

LTS Research Laboratories, Inc. Safety Data Sheet

Calcium Selenide

1. Product and Company Identification

Trade Name: Calcium Selenide

Chemical Formula: CaSe

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301+H331: Toxic if swallowed or if inhaled

H373: May cause damage to organs through prolonged or repeated

exposure

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area

P273: Avoid release to the environment

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P320: Specific treatment is urgent

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 1 Physical: 2

not use mouth POISON CE	
Calcium Selenide (CaSe): Percentage: CAS #: 1305-84-6 EC #: 4. First Aid General Treatment: Special Treatment: None Important Symptoms: None Remove victing the symptom of the symptom of the symptom of the symptom. Remove victing the symptom of the symptom	D. 1
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Important Symptoms: Inhalation: Remove victing the mouth POISON CEI	attention.
Inhalation: Remove victing the most use mouth POISON CEL	
not use mouth POISON CE	
Ingestion: Immediately	m to fresh air. Supply oxygen if breathing is difficult. Do h-to-mouth method if victim inhaled the substance. Call a NTER or doctor/physician.
mouth. Do no	call a POISON CENTER or doctor/physician. Rinse ot induce vomiting without
	poison control center. If vomiting occurs, keep head low so content doesn't get into the lungs. Do not use mouth-to-
	d if victim ingested the substance. Induce artificial
	ith the aid of a pocket mask equipped with a one-way
	r proper respiratory medical device.
	e off immediately all contaminated clothing. Rinse skin ower. Get medical attention if irritation develops and
	isly with water for several minutes. Remove contact lenses
if present and	l easy to do – continue rinsing. Get medical attention if elops and persists.
5. Firefighti	ng Measures
Flammability: Non-flammab	ple
	strictions – use suitable extinguishing agent for naterial and type of fire.
	self-contained breathing apparatus with full protective
	event contact with skin and eyes. See section 10 for
6. Accidental R	elease Measures
special protection. Ventilation. Ventilation	riate respiratory and protective equipment specified in
Environmental Precautions: Isolate runoff	ction information. Isolate spill area and provide 'acuum up spill using a high efficiency particulate PA) air filter and place in a closed container for disposal. to raise dust.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.2 mg/m^3 Threshold Limit Value: 0.2 mg/m^3

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

> backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.6 mm thick.

Penetration time of glove material: 480 minutes

Eye Protection: Safety glasses or goggles, Full face protection

Protective work clothing. Wear close-toed shoes and long **Body Protection:**

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A Water Solubility: N/A **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A **Autoignition Temperature:** N/A Density: 3.57 g/cc

Molecular weight: 119.049 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions Reacts With: Strong oxidizing agents, water/moisture **Incompatible Conditions:** Strong oxidizing environments, water/moisture

Selenium dioxide, Calcium oxide, Toxic metal oxide fume Hazardous Decomposition Products:

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: Toxic if swallowed
Inhalation: Toxic if inhaled

Chronic: May cause damage to organs through prolonged or repeated exposure

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: High
Persistent Bioaccumulation Toxicity: No
Very Persistent, Very Bioaccumulative: No

Notes:

Very toxic to aquatic life with long lasting effects.

Accumulation in aquatic organisms is expected.

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effect on aquatic life.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 6.1 Selenium Compound

Packing Group: PG III
UN Number: UN3283

Proper Shipping Name: Selenium compound, solid, n.o.s. (Calcium Selenide)

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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