

LTS Research Laboratories, Inc. Safety Data Sheet Silver Oxide

1. Product and Company Identification

Trade Name: Silver oxide Chemical Formula: AgO

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: H272: May intensify fire; oxidizer

H314: Causes severe skin burns and eye damage

Precautionary Statements: P221 Take any precaution to avoid mixing with combustibles

P210 Keep away from heat/sparks. No smoking.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 2

3. Composition

Chemical Family: Ceramic
Additional Names: Silver(II) oxide

Silver oxide (AgO):

Percentage: 100 wt% CAS #: 1301-96-8 EC #: 215-098-2

4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	Causes severe skin burns.
	Causes serious eye damage.
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
T.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Fire and Explosion Hazards Data
Flammability:	Non-flammable by itself
Tammaomy.	Oxidizer – may cause fire by reaction with reducing agents or
	combustibles.
Estinguishing Medic.	No appoint rectnictions was suitable autinoviables accept for
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Spec. Fire Fighting Procedure:	clothing to prevent contact with skin and eyes.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
ii wateriai is Released/Spined.	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal.
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
Storage Conditions.	Inert gas.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
/ 8.0	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: N/A Threshold Limit Value: N/A

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: Rubber gloves

Eye Protection: Safety glasses or goggles, Full face protection

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Grey

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

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** >100 °C Flash Point: N/A Autoignition Temperature: N/A 7.44 g/cc Density:

123.87 g/mol Molecular weight:

10. Reactivity

Stable under recommended storage conditions Stability:

Reacts With: Reducing agents, Flammable substances, Acetylenes, Ammonia,

Organic materials, Metal powders, Water

Moisture, Light **Incompatible Conditions:** Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage Skin: Causes severe skin burns Ingestion: Causes burning effect Inhalation: Causes burning effect

Chronic: Absorption of silver compounds by ingestion, inhalation or through

broken skin can cause argyria, a permanent bluish-grey discoloration of

the skin, conjunctiva and mucous membranes.

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

Median Lethal Dose: N/A

Carcinogen: N/A

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 5.1 Oxidizing substances

Packing Group: II for pieces/target

UN Number: UN3085

Proper Shipping Name: Oxidizing solid, n.o.s. (Silver oxide)

15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
No
N/A
Yes

No
N/A
Yes

16. Other Information

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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