

## **MATERIAL SAFETY DATA SHEET**

### **SILVER VANADATE 98% Extra Pure**

**CAS NO. : 13497-94-4**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** Silver Vanadate

**CAS#:** 13497-94-4

**C.I. No.:** Not available.

**Synonym:** Silver Meta Vanadate.

**Chemical Name:** Not available.

**Chemical Formula:** AgO<sub>3</sub>V

**Brand:** OXFORD

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification:** OXFORD LAB FINE CHEM LLP  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
Tel/Fax: 91-250-2390032

#### **Section 2: Composition and Information on Ingredients**

##### **Substances**

**Formula:** AgVO<sub>3</sub>

**Molecular weight:** 206.81 g/mol

**CAS-No.:** 13497-94-4

**Synonym:** Silver Meta Vanadate.

**Hazardous ingredients according to Regulation (EC) No 1272/2008.**

<b>Substance name</b>	<b>Cas no.</b>	<b>Concentration</b>
Silver metavanadate	13497-94-4	<=100%

## Section 3: Hazards Identification

### Classification of the substance or mixture

#### Classification of the substance according to Regulation (EC) No 1272/2008:

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity -single exposure (Category 3), H335

**Other hazards** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Contact with water liberates toxic gas.

## Section 4: First Aid Measures

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Indication of any immediate medical attention and special treatment needed

No data available

## Section 5: Fire and Explosion Data

### Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Silver/silver oxides, Vanadium/vanadium oxides

## Section 5: Fire and Explosion Data

### Advice for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary.

### Further information

No data available

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage, including any incompatibilities

Store in cool place.

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Combustible solids, toxic

## Section 8: Exposure Controls/Personal Protection

### Control parameters

#### Exposure controls

##### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a) Appearance Form	: Powder.
b) Odour	: No data available.
c) Odour threshold	: No data available.
d) pH	: No data available.
e) Melting point/range	: No data available.
f) Initial boiling point andboiling range	: No data available.
g) Autoignition temperature	: No data available.
h) Flammability (solid, gas)	: No data available.
i) Upper/lower flammability or explosive limits	: No data available.
j) Flash point [°C]	: No data available.

## Section 9: Physical and Chemical Properties (Continued)

k)Evaporation rate	: No data available.
l)Vapour pressure	: No data available.
m)Vapour density	: No data available.
n)Relative density,	: No data available.
o)Solubility in water	: No data available.
p)Viscosity	: No data available.
q)Explosive properties	: No data available.
r)Oxidising properties	: No data available.
s)Decomposition temperature	: No data available.
t)Autoignition temperature	: No data available.
u)Molecular Weight	: No data available.

## Section 10: Stability and Reactivity Data

Reactivity : No data available.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents, strong bases.

Hazardous decomposition products

Other decomposition products - Hazardous decomposition products formed under fire conditions.-

Silver/silver oxides, Vanadium/vanadium oxides

Other decomposition products-No data available.

## Section 11: Toxicological Information

Information on toxicological effects

No data available (Silver metavanadate)

Skin corrosion/irritation

No data available (Silver metavanadate)

## Section 11: Toxicological Information (Continued)

### **Serious eye damage/eye irritation**

No data available (Silver metavanadate)

### **Respiratory or skin sensitization**

No data available (Silver metavanadate)

### **Germ cell mutagenicity**

No data available (Silver metavanadate)

### **Carcinogenicity**

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

### **Reproductive toxicity**

No data available (Silver metavanadate)

### **Specific target organ toxicity - single exposure**

Inhalation-May cause respiratory irritation. (Silver metavanadate)

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available (Silver metavanadate)

### **Additional Information**

RTECS: No available

Nausea, Vomiting, Diarrhoea, Dizziness, Weakness, Cough, chest pain, Difficulty in breathing, May cause argyria (a slate-gray or bluish discoloration of the skin and de silver). To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Silver metavanadate)

## Section 12: Ecological Information

**Toxicity:** No data available.

**Persistence - degradability :** No data available.

**Bioaccumulative potential :** Not established.

**Mobility in soil :** No data available (Silver metavanadate)

**Results of PBT and vPvB assessment :** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects :** No data available.

## Section 13: Disposal Considerations

### Waste treatment methods

#### **Product:**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

**Contaminated packaging:** Dispose of as unused product.

## Section 14: Transport Information

### Land transport (ADR-RID)

**Proper shipping name :** VANADIUM COMPOUND, N.O.S. (Silver metavanadate)

**UN N° :** 3285

**ADR - Class :** 6.1

### Sea transport (IMDG) [English only]

**Proper shipping name :** VANADIUM COMPOUND, N.O.S. (Silver metavanadate)

**UN N° :** 3285

**IMO-IMDG - Class or division :** 6.1

**IMO-IMDG - Packing group :** III

### Air transport (ICAO-IATA) [English only]

**Proper shipping name :** Vanadium compound, n.o.s. (Silver metavanadate)

**UN N° :** 3285

**IATA - Class or division :** 6.1

**IATA - Packing group :** III

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Neminath Industrial Estate No.6,  
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Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990  
Email: sales@oxfordlabchem.com /  
info@oxfordlabchem.com  
Web: www.oxfordlabchem.com

## Section 15: Other Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

### ***Disclaimer:***

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