

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Name:** Vanadyl Oxalate

**Product Number:** All applicable American Elements product codes, e.g. VO-OXL-02-P , VO-OXL-03-P , VO-OXL-04-P , VO-OXL-05-P

**CAS #:** 15500-04-6

**Relevant identified uses of the substance:** Scientific research and development

**Supplier details:**

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

**Emergency telephone number:**

+1 800-424-9300

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## SECTION 2. HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - Oral Category 4

Serious eye damage/eye irritation Category 2A



Signal word: Warning

Hazard statements:

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

Precautionary statements:

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves, protective clothing, eye protection, face protection

**IF IN EYES:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED:**

Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth.

Dispose of contents/container to an approved waste disposal plant.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name: Vanadyl Oxalate

Weight- 20.0-25.0 (vanadium), 35.0-45.0 (C<sub>2</sub>O<sub>4</sub>)%

CAS No. 15500-04-6

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**SECTION 4. FIRST AID MEASURES****Inhalation:**

Remove to fresh air. If symptoms persist, call a physician.

**Skin contact:**

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

**Eye contact:**

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

**Ingestion:**

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

**Protection of first-aiders:**

Use personal protective equipment as required.

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**SECTION 5. FIREFIGHTING MEASURES****Suitable extinguishing media:**

Water spray (fog), Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder, Sand

**Unsuitable extinguishing media:**

No information available

**Special extinguishing method:**

No information available

**Specific hazards arising from the chemical product:**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Protection of fire-fighters:**

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions:

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminant and methods and materials for cleaning up:

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization:

No information available

Secondary disaster prevention measures:

Clean contaminated objects and areas thoroughly observing environmental regulations.

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## **SECTION 7. HANDLING AND STORAGE**

Handling

Technical measures:

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions:

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions:

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Storage conditions:

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Store locked up.

Safe packaging material:

Glass

Incompatible substances:

Strong oxidizing agents

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls:

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

Exposure limits:

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name: Vanadyl Oxalate

CAS No. 15500-04-6

ISHL (Japan): N/A

ACGIH: N/A

Personal protective equipment:

Respiratory protection: Dust mask

Hand protection: Protection gloves

Eye protection: Protective eyeglasses or chemical safety goggles

Skin and body protection: Long-sleeved work clothes

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Color: blue

Appearance: powder or mass

Odor: No data available

pH: No data available

Melting point/freezing point: No data available

Boiling point, initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits

Upper? No data available

Lower? No data available

Vapour pressure: No data available

Vapour density: No data available

Specific Gravity Relative density: No data available

Solubilities water : sparingly soluble

n-Octanol/water partition coefficient:(log Pow): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity (coefficient of viscosity): No data available

Dynamic viscosity: No data available

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## **SECTION 10. STABILITY AND REACTIVITY**

Stability: Stable under recommended storage conditions.

Reactivity: No data available

Hazardous reactions:  
None under normal processing

Conditions to avoid:  
Extremes of temperature and direct sunlight

Incompatible materials:  
Strong oxidizing agents

Hazardous decomposition products:  
Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Vanadium oxide

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity: No data available  
Skin irritation/corrosion: No data available  
Serious eye damage/ irritation: No data available  
Respiratory or skin sensitization: No data available  
Reproductive cell mutagenicity: No data available  
Carcinogenicity: No data available  
Reproductive toxicity: No data available  
STOT-single exposure: No data available  
STOT-repeated exposure: No data available  
Aspiration hazard: No data available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity: No information available  
Other data: No data available  
Persistence and degradability: Degree of decomposition?37 % by BOD (METI Existing chemical safety inspections)  
Bioaccumulative potential: No information available  
Mobility in soil: No information available  
Hazard to the ozone layer: No information available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste from residues:  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging:  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

ADR/RID Not regulated  
UN number - Proper shipping name:  
UN classification

Subsidiary hazard class  
Packing group  
Marine pollutant Not applicable

IMDG Not regulated  
UN number - Proper shipping name:  
UN classification  
Subsidiary hazard class  
Packing group  
Marine pollutant (Sea) Not applicable  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: No information available

IATA Not regulated  
UN number - Proper shipping name:  
UN classification  
Subsidiary hazard class  
Packing group  
Environmentally Hazardous Substance Not applicable

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## **SECTION 15. REGULATORY INFORMATION**

International Inventories  
EINECS/ELINCS -  
TSCA -

Japanese regulations  
Fire Service Act Not applicable  
Poisonous and Deleterious  
Substances Control Law  
Deleterious Substances 3rd. Grade  
Industrial Safety and Health Act Not applicable  
Regulations for the carriage and storage of dangerous goods in ship  
Not applicable  
Civil Aeronautics Law Not applicable  
Pollutant Release and Transfer  
Register Law  
Class 1  
Class 1 - No. 321  
Export Trade Control Order Not applicable

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## **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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