

MATERIAL SAFETY DATA SHEET



Complies with U.S. OSHA
E.C. Guideline 91/155/EEC:
Revision: 3
Last Revision: October 2007
Replaces: July 2004

EMERGENCY TELEPHONE NUMBERS:
NATIONAL RESPONSE CENTER: 1-800-424-8802
CHEMTREC U.S. and CANADA: 1-800-424-9300
CHEMTREC International: 1-202-483-7616 (Collect)

Users of this product are requested to study this data sheet to learn the product's characteristics so that the product can be used safely. If the material is resold, the purchaser should be furnished a copy of this data sheet and the information should be made available to all users.

SECTION 1

Chemical Product and Company Identification

Product Trade Name
Company Identification

Vanadyl Oxalate

Stratcor, Inc. Tel.: (501) 262-1270
4285 Malvern Road Fax: (501) 262-2793
Hot Springs, Arkansas 71901; USA

Inquiry Department

Stratcor, Inc.; Pittsburgh, PA; USA
Tel.: 1-412-787-4500; www.stratcor.com

SECTION 2

Composition and Information on Ingredients

Chemical Characterization:

Chemical Description
UN Number
DOT Guide
CAS No.
EINECS No.

Vanadyl Oxalate Solution
UN 3287 (No specific Listing.)
151
14974-48-2
239-052-6 (Oxalic Acid, Vanadium Salt)

SECTION 3

Hazards Identification

Potential Hazards for Humans and Animals:

Main Hazard

Ingestion; mild acid burns with skin contact.

Eye Contact

Burning, redness, pain, flood of tears..

Skin Contact

Irritation with burning, reddening, and itching.

Ingestion

Harmful if swallowed. Abdominal discomfort, vomiting,
and spasm.

SECTION 4

First-Aid Measures

General Information:

Skin

Wash with soap and water. See a physician if irritation
continues.

Eyes

Flush with water 15 minutes. See an ophthalmologist.

Ingestion

Give large quantities of water. Call a physician.

SECTION 5

Fire-Fighting Measures

**Suitable Extinguishing
Media**

Material does not burn.

**Extinguishing Media Not to
Be Used**

None.

Special Exposure Hazards

Avoid actions which generate fume.

**Special Protective Equip-
ment for Fire Fighters**

Use gloves, eye protection, and self-contained breathing
apparatus to prevent contact.

SECTION 6

Accidental-Release Measures

Personal Precautions	Acid-resistant clothing and eye protection.
Environmental Precautions	Prevent entering sewage systems or surface water.
Cleaning Methods	Use absorbent compound.

SECTION 7

Handling and Storage

Handling	Use acid-resistant container. Handle with care.
Storage	Keep in cool, dry place.

SECTION 8

Exposure Controls and Personal Protection

Occupational Exposure Limit	Listed in OSHA 29 CFR 1910.1000, Table Z-1 (Air Contaminants): 0.05 mg/m ³ for V ₂ O ₅ respirable dust or fume (ACGIH TLV TWA)
Personal Safety Equipment:	
Respiratory Protection	Use respirators approved by NIOSH/MSHA.
Hand Protection	Use appropriate rubber gloves.
Eye Protection	Use approved eye protection.
Skin Protection	Wear acid-proof clothing.
Personal Hygiene	Wash or bathe with soap and water after handling and before eating, drinking, or smoking.

SECTION 9

Physical and Chemical Properties

This MSDS reflects available research data and is not a product- or quality-specification document.

Appearance:	
Physical State	Liquid.
Form	Solution.
Flash Point	Not applicable.
Flammability	Not applicable.
Ignition Temperature	Not applicable.
Auto Flammability	Not applicable.
Oxidizing Properties	May act as a catalyst in certain chemical environments.
Explosive Properties	None.
Solubility in Water (20°C)	22 g per 100 g.
pH Value	Less than 1.

SECTION 10

Stability and Reactivity

Conditions to Avoid	Stable.
Incompatible Materials	Generates carbon dioxide (CO ₂) when exposed to alkaline products.
Hazardous Decomposition	Vanadium oxides, carbon dioxide.

SECTION 11 Toxicological Information

Acute Toxicity	No toxicity data available.
Irritation	Eye and skin irritant. Hazardous and may cause severe burns.
Chronic Toxicity	No data available.
Carcinogen Status:	No data that indicates carcinogenicity.
Mutagen Status	No data available.
Teratogen Status	No data indicating any hazards.

SECTION 12 Ecological Information

Persistence and Degradability	No data available.
Bioaccumulation	No data available.
Aquatic Toxicity and Other Data Relating to Ecotoxicity	No data available.

SECTION 13 Disposal Considerations

Product Recommendation	Disposal should be made in compliance with Federal, state, and local environmental regulations.
Packaging Disposal	Disposal should be made in compliance with Federal, state, and local regulations.

SECTION 14 Transport Information

No specific listing for U.N., U.S. DOT, IMDG, or IATA.	
Recommended Proper Shipping Description	Toxic Liquid, Inorganic, N.O.S. (Vanadyl Oxalate), 6.1, UN 3287, II

SECTION 15 Regulatory Information

Classification According to U.N. Guidelines	Not listed.
E.C. Danger Symbol	
R-Phrases	Not listed.
S-Phrases	Not listed.
TSCA Inventory	Listed in EPA TSCA inventory.
CERCLA RQ / EHS Components	No RQ has been established.
Section 311/12 Hazard Class - 40 CFR 370.2	Acute: Yes. Chronic: Yes. Fire: No. Pressure: No. Reactivity: No. Review appropriate regulations for possible Tier II requirements.
Section 313 – 40 CFR 372.65	Reportable chemical categories: vanadium and vanadium compounds.
Non-U.S. Requirements	Refer to specific national guidelines.

SECTION 16 Other Information

Data Sheet Prepared by:


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Strategic Minerals Corporation believes that the data on this sheet are correct as of the effective date and that the opinions given reflect those of qualified experts. Since Strategic Minerals cannot control the product or its use, it is the user's responsibility to use the product safely. The data on this sheet apply only to products sold by corporate subsidiaries of Strategic Minerals and may not apply to products sold by others.

STRATCOR, Inc.

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The material difference is value.