

MATERIAL SAFETY DATA SHEET



Complies with U.S. OSHA
E.C. Guideline 91/155/EEC:
Revision: 0
Last Revision: July 2007

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	Potassium Metavanadate
Company Identification	Stratcor Technology Center Tel.: (501) 262-4045 4343 Malvern Road Fax: (501) 262-4161 Hot Springs, Arkansas 71901; U.S.A.
Inquiry Department	Stratcor, Inc.; Pittsburgh, PA; U.S.A. Tel.: 1-412-787-4500; www.stratcor.com

SECTION 2

Composition and Information on Ingredients

Chemical Characterization:	
Chemical Description	Potassium Metavanadate
UN Number	UN 2864
DOT Guide	151
CAS No.	13769-43-2
EINECS No.	237-388-8

SECTION 3

Hazards Identification

Potential Hazards for Humans and Animals:	
Inhalation	Irritating to respiratory system.
Skin Contact	Irritating to eyes.
Skin Contact	Irritation with burning, reddening, and itching.
Ingestion	Harmful if swallowed.

SECTION 4

First-Aid Measures

General Information:	
Inhalation	Supply fresh air or artificial respiration if necessary.
Skin	Wash with soap and water and rinse thoroughly. See a physician.
Eyes	Flush with water for 15 minutes. See an ophthalmologist.
Ingestion	Get medical attention immediately.

SECTION 5 Fire-Fighting Measures

Suitable Extinguishing Media	Not flammable. Use media suitable for surrounding fire.
Extinguishing Media Not to Be Used	None.
Special Exposure Hazards	Avoid creating dust.
Special Protective Equipment for Fire Fighters	Self-contained respirator and impervious suit.

SECTION 6 Accidental- Release Measures

Personal Precautions	Skin, eye, and respiratory protection.
Environmental Precautions	Prevent entering sewage systems or surface water.
Cleaning Methods	Dispose of in accordance with applicable environmental rules

SECTION 7 Handling and Storage

Handling	Keep container tightly sealed in cool conditions. Open and handle container with care.
Storage	Store in an area with restricted access. Ensure good ventilation at the workplace.

SECTION 8 Exposure Controls and Personal Protection

Occupational Exposure Limit	No specific PEL for potassium metavanadate. Exposure data applies as noted, from DPIM, 10th Edition: 0.05 mg/m ³ for V ₂ O ₅ respirable dust or fume (ACGIH TLV TWA) 0.05 mg V/m ³ for vanadium compounds, 15 minutes (NIOSH REL)
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	Appropriate impervious clothing should be worn.
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	Solid.
Form	Granules.
Color	White.
Vapor Pressure	Not determined.
Flash Point	Not applicable.
Ignition Temperature	Not determined.
Decomposition Temperature	Not determined.
Explosive Properties	None.
Density	Not determined.
Solubility in Water (20°C)	Slightly soluble.
pH Value	Not applicable.

SECTION 10

Stability and Reactivity

Conditions to Avoid	Decomposition will not occur if used and stored according to specifications.
Incompatible Materials	None.
Hazardous Decomposition	When heated to decomposition it emits toxic fumes of VO _x .

SECTION 11

Toxicological Information

Acute Toxicity	V ₂ O ₅ LD ₅₀ orl-rat: 10 mg/kg. (DPIM, 10 th Edition): Poison by ingestion route.
Irritation	Irritant to the skin and mucous membranes.
Subacute to Chronic Toxicity	Vanadium compounds act as an irritant to the eyes and respiratory tract. Exposure may cause conjunctivitis and reversible irritation of the respiratory tract. More severe cases may cause bronchitis and asthma like diseases.
Carcinogen Status:	No classification data on carcinogenic properties of this material is available.
Mutagen Status	No listings found.
Teratogen Status	Unknown.

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.

Empty-Container Recommendation

Disposal should be made in accordance with local regulations.

SECTION 14 Transport Information

Follow all regulations in user's country and / or region.

U.S. packaging requirements shall be met for all modes of transportation for U.S. and international shipments.

Proper Shipping Name

Potassium Metavanadate

Proper Shipping Description

Potassium Metavanadate, 6.1, UN 2864, Packing Group II

SECTION 15 Regulatory Information

Classification: U.N. Guidelines

E.C. Danger Symbol:

R-Phrases

R36 / 37 / 38: Irritating to eyes, respiratory system, and skin.

S-Phrases

S9: Keep container in a well-ventilated place.

S26 / S28: In case of contact with eyes/skin, rinse immediately with water and seek medical attention.

S36 / 37 / 39: In case of accident, seek medical attention.

S45: In case of accident or if you feel unwell, seek medical advice immediately.

TSCA Inventory

Potassium Vanadate.

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.