

MATERIAL SAFETY DATA SHEET



Complies with U.S. OSHA
E.C. Guideline 91/155/EEC:
Revision: 3
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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	Sodium Metavanadate (SMV)
Company Identification	Evrax Stratcor Technology Center Tel.: (501) 262-4045 4285 Malvern Road Fax: (501) 262-4161 Hot Springs, Arkansas 71901; USA
Inquiry Department	Evrax Stratcor, Inc.; Pittsburgh, PA; U.S.A. Tel.: 1-412-787-4500; www.evraxstratcor.com

SECTION 2 Composition and Information on Ingredients

Chemical Characterization:	
Chemical Description	Sodium Metavanadate Solution, NaVO₃
UN Number	UN 3287
DOT Guide	151
CAS No.	13718-26-8
EINECS No.	232-272-7 sodium vanadate

SECTION 3 Hazards Identification

Potential Hazards for Humans and Animals:	
Eye Contact	Irritating to eyes.
Skin Contact	Irritation with reddening, burning, and itching.
Inhalation	Irritating to the respiratory system.
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 15 minutes. See an ophthalmologist.
Ingestion	Get medical attention immediately.

SECTION 5 Fire-Fighting Measures

Suitable Extinguishing Media	Not applicable.
Extinguishing Media Not to Be Used	Not applicable.
Special Exposure Hazards	Not applicable.
Special Protective Equipment for Fire Fighters	Not applicable.

SECTION 6 Accidental- Release Measures

Personal Precautions	Wear protective equipment and ensure adequate ventilation.
Environmental Precautions	Do not allow to be released to the environment without proper environmental permits.
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 entilation at the workplace.

SECTION 8 Exposure Controls and Personal Protection

Recommendations on Equipment Designs	Use properly operating chemical fume hood designed for hazardous chemicals.
Occupational Exposure Limit	0.05 mg/m ³ for V ₂ O ₅ inhalable particulate matter, measured as vanadium (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 appropriate impervious 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.
Color	Light brown.
Flash Point	Not determined.
Decomposition Temperature	Not applicable
Ignition Temperature	Not applicable.
Explosive Properties	None.
Vapor Pressure	Not determined
Density	Not determined.
Solubility in Water (20°C)	21.1 g per 100 cc.
pH Value	11

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 Na ₂ O and VO _x .

SECTION 11

Toxicological Information

Acute Toxicity	LDL ₀ orl-rat:98mg/kg (DIPM, 10 th edition). Poison by ingestion, intraperitoneal, subcutaneous and intravenous routes
Irritation	Irritant to the skin and mucous membranes. Hazardous and may cause severe burns.
Sub-acute 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	Some data reported.
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.
Packaging Disposal	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	Toxic Liquid Inorganic, N.O.S. (Sodium Metavanadate)
Proper Shipping Description	Toxic Liquid Inorganic, N.O.S., 6.1, UN 3287, Packing Group II

SECTION 15 Regulatory Information

Classification: U.N. Guidelines	
E.E.C. Hazard Classification:	
R-Phrases	R25; Toxic if swallowed. R37/38; Irritating to, respiratory system and skin, R41; Risk of serious damage to eyes
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.
TSCA Inventory	Sodium vanadate.
CERCLA RQ – 40 CFR 302.4(a)	Ammonium metavanadate is a listed hazardous substance with a reportable quantity (RQ) of 1000 lbs. Notification to NRC required for spills to the environment in excess of the RQ.
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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10-1-11

Evraz Stratcor, Inc. 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 Evraz Stratcor 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 Evraz Stratcor and may not apply to products sold by others.

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