

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Ammonium Metavanadate

CAS number 7803-55-6

Synonyms Ammonium vanadate, meta.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral intoxicity

Acute Inhalation Toxicity - Dust and Mists

Category 4

Serious Eye Damage/Eye Irritation

Category 2

Reproductive Toxicity

Specific target organ toxicity - (repeated exposure)

Category 1

Target Organs - Kidney, Liver

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements Suspected of damaging the unborn child. Toxic if swallowed. Causes

serious eye irritation. Harmful if inhaled. Causes damage to organs

through prolonged or repeated exposure.

Precautionary statements:

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye/face

protection. Do not breathe dust/fume/gas/mist/vapors/spray.

Response: IF exposed or concerned: Get medical attention/advice.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Eyes: 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.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

Storage: Store locked up.

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

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Ammonium metavandate	Ammonium vanadate	77803-55-6	>95%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

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If inhaled Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-

to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the air of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediate

medical attention is required.

In case of eye contact
In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

If swallowed Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

None reasonable foreseeable.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide, dry chemical, alcohol-

resistant foam.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous combustion products: Ammonia, nitrogen oxides, heavy metal oxides.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-conatained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

5.4 Further information

Flash Point No data available.

Autoignition Temperature No information available.

Explosion limits

UpperNo data available.LowerNo data available

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Sensitivity to Mechanical Impact Sensitivity to Static Discharge NFPA No information available. No information available.

Health	Flammability	Instability	Physical hazards
3	1	1	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminated ground water system.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Incompatibilities

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

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US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Ammonium metavanadate	IDLH (Ceiling)	0.05 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respiratory regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Light green
Odor Odorless

Odor Threshold No information available pH No information available

Melting Point/Range 200 °C / 392 °F

Boiling Point/Range No information available Evaporation Rate No information available Flammability (solid) No information available

Flammability or explosive limit

Upper No data available

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Lower No data available

Vapor PressureNo information availableVapor DensityNo information availableDensityNo information availableSolubilityNo information available

Partition coefficient; n-octanol/water No data available

Autoignition Temp
Decomposition Temp
No information available
Viscosity
No information available

Molecular Formula H4NO3V Molecular Weight 116.98

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Stable under normal conditions. Moisture senstive.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Ammonia, nitrogen oxides, heavy metal oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Ammonium vanadate	58100 μg/kg (rat)	2102 mg/kg (rat)	7800 µg/m3 (rat) 4 h	
	1	•	2.5 mg/L (rat) 4 h	

Skin corrosion/irritation

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No information available

Serious eye damage/eye irritation

Irritating to eyes.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ammonium vanadate	7803-55-6	Not listed				

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

Kidney, Liver.

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
Ammonium metavanadate	LC50	Ictalrus catus (freshwater fish)	2.6 mg/L 96h

12.2 Persistence and degradability

Based on information available. May persist.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

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No information available

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

The toxicological properties have not been fully investigated.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-No UN2859

Proper Shipping Name AMMONIUM METAVANADATE

Hazard Class 6.1
Packing Group

IMDG

UN-No UN2859

Proper Shipping Name AMMONIUM METAVANADATE

Hazard Class 6.1
Packing Group

IATA

UN-No UN2859

Proper Shipping Name AMMONIUM METAVANADATE

Hazard Class 6.1 Packing Group

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, 1000 lb

SARA 304 Emergency release notification

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Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See section 2 for more information.

SARA 313 (TRI reporting)

Listed, Weight: >95%, Threshold Values %: 1.0

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not listed.

Safe Drinking Water Act

Not listed.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed

US. New Jersey Worker and Community Right-to-Know Act

Listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Listed.

California Proposition 65

Not listed

SECTION 16: Other information

Issue date: 07/25/2024

Revision: 0

SECTION 17: Disclaimer

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The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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