

# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

## 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Trade name	: AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)
Product code	: A0024600100
Identification of the product	: AMMONIUM - METAVANADATE 98% CAS No :7803-55-6
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Use	: Industrial. For professional use only.
1.3. Details of the supplier of the sat	fety data sheet
Company identification	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Email ID: info@suvchem.com/care@suvchem.com
1.4. Emergency telephone number	
Phone no.	:+ 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

## 2. Hazards identification -DSD

## 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

Classification : T+; R26 T; R25 Vi: P36/

T; R25 Xi; R36/37/38

## Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards: Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -<br/>Category 3 - Warning (CLP : STOT SE 3) H335<br/>Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301<br/>Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315<br/>Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330<br/>Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332<br/>Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

## 2.2. Label elements

#### **OM SHREE GANESHYA NAMAH**



## CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

## 2. Hazards identification -DSD (continued)

## Labelling EC 67/548 or EC 1999/45

Symbol(s)



	: T+ : Very toxic : R25 : Toxic if swallowed. R26 : Very toxic by inhalation. R36/37/38 : Irritating to eyes, respiratory system and skin.
S Phrase(s)	<ul> <li>S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.</li> <li>S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).</li> </ul>

## Labelling Regulation EC 1272/2008 (CLP)

## Hazard pictograms



Signal words	: Danger
Hazard statements	<ul> <li>H330 : Fatal if inhaled.</li> <li>H301 : Toxic if swallowed.</li> <li>H319 : Causes serious eye irritation.</li> <li>H315 : Causes skin irritation.</li> <li>H332 : Harmful if inhaled.</li> <li>H335 : May cause respiratory irritation.</li> </ul>
Precautionary statements	
• Prevention	<ul> <li>P284: Wear respiratory protection.</li> <li>P280: Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P260: Do not breathe dust, fume, gas, mist, vapours, spray.</li> <li>P264: Wash thoroughly after handling.</li> <li>P270: Do not eat, drink or smoke when using this product.</li> </ul>
• Response	<ul> <li>P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor. P302+P352: IF ON SKIN : Wash with plenty of soap and water. P332+P313: If skin irritation occurs : Get medical advice. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P363: Wash contaminated clothing before reuse.</li> </ul>
Storage	: P403+P233: Store in well-ventilated place. Keep container tightly closed. P405: Store locked up.



# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

2. Hazards identification -DSD (continued)	
Disposal considerations	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards	
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients	
Substance / Preparation	: AMMONIUM - METAVANADATE 98% CAS No :7803-55-6 Substance.
Contains no other components or impurities which will influence the classification of the product.	
4. First aid measures	
4.1. Description of first aid r	neasures
Inhalation	: Call a POISON CENTER or doctor if you feel unwell. Specific treatment is urgent ( see on this label). Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Wash with plenty of soap and water. If skin irritation occurs : Get medical advice. Specific treatment (see on this label). Wash contaminated clothing before reuse.
Eye contact	: 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.
	and easy to do. Continue mising. If eye initiation persists . Oet medical advice.

# Symptoms relating to use: Swallowing a small quantity of this material will result in serious health hazard.<br/>Danger of serious damage to health by prolonged exposure through inhalation.<br/>Fatal if inhaled.<br/>Causes serious eye irritation.<br/>Causes skin irritation. May cause respiratory irritation.

## 4.3. Indication of any immediate medical attention and special treatment needed

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## **OM SHREE GANESHYA NAMAH**



#### CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

## 5. Fire-fighting measures

## 5.1. Extinguishing media Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media : Do not use a heavy water stream. Surrounding fires : Use water spray or fog for cooling exposed containers. 5.2. Special hazards arising from the substance or mixture Hazardous combustion products : Under fire conditions, hazardous fumes will be present. 5.3. Advice for fire-fighters Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection. **Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.
For non-emergency personnel	: Evacuate unnecessary personnel.

## 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

## 7. Handling and storage

## 7.1. Precautions for safe handling



## MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

7. Handling and storage (continued)		
Handling	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not breathe dust, fume, gas, mist, vapours, spray.	
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.	
Special precautions	: Avoid breathing dust, fume, gas, mist, vapours, spray.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.	
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.	
<u>7.3. Specific end use(s)</u>		
Specific end use(s)	: None.	

B. Exposure controls/personal protection	
8.1. Exposure controls	
Personal protection	: Avoid all unnecessary exposure.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Wear respiratory protection.
<ul> <li>Hand protection</li> </ul>	: Wear protective gloves.
Skin protection	: Wear suitable protective clothing.
Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.
8.2. Control parameters	
Occupational Exposure Limits	: No data available.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: White or yellowish-white
Odour	: Odorless
Odour threshold	: No data available.
pH value	: Not applicable.



# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

## 9. Physical and chemical properties (continued)

···· · · · · · · · · · · · · · · · · ·	
Melting point [°C]	: 2000C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm3]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Slight (0.1-1%)
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

## 10. Stability and reactivity

<u>10.1. Reactivity</u>	
Reactivity	: Not established.
10.2. Chemical stability	
Chemical stability	: Stable under recommended storage conditions.
10.3 Possibility of bazardous reacti	ons

10.3. Possibility of hazardous reactions



## MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

0. Stability and reactivity (continued)		
Hazardous reactions	: Not established.	
10.4. Conditions to avoid		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.	
10.5. Incompatible materials		
Materials to avoid	: Strong acids. Strong bases.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.	
11. Toxicological information		

## 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
Inhalation	: Fatal if inhaled. Harmful if inhaled.
• Dermal	: Based on available data, the classification criteria are not met.
Ingestion	: Toxic if swallowed.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

## 12. Ecological information

## <u>12.1. Toxicity</u>

**Toxicity information** 

: Not established.

## 12.2. Persistence - degradability



# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

12. Ecological information (continued)		
Persistence - degradability	: Biodegradable.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	: Not established.	
<u>12.4. Mobility in soil</u>		
Mobility in soil	: Not established.	
12.5. Results of PBT and vPvB asses	ssment	
Results of PBT and vPvB assessmer	nt : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.	
12.6. Other adverse effects		
Environmental precautions	: Avoid release to the environment.	
13. Disposal considerations		
13.1. Waste treatment methods		
General	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.	
	local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
General Special precautions	local/national regulations. Dispose of this material and its container to hazardous or special waste collection	
	local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
Special precautions	local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
Special precautions 14. Transport information	local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	

: 6.1

ADR - Class

Labelling - Transport

: 6.1 : Toxic substances.





# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

## 14. Transport information (continued)

ADR - Classification code	: T5 T5 T5
ADR - Group	: 11
ADR - Packing instructions	: P002
ADR - Limited Quantity	: 500 G
ADR - Tunnel code	

: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

## 14.2. Sea transport (IMDG) [English only]

Proper shipping name UN N°	: AMMONIUM METAVANADATE : 2859
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: 11
IMO- IMDG - Packing instructions	: P002
IMO-IMDG - Limited quantities	: 500 g
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-A S-A

## 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: AMMONIUM METAVANADATE
UN N°	: 2859
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: 11
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 669
- Passenger and Cargo - Maximum Quantity/Packing	: 25 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 676
- Cargo only - Maximum Quantity/ Packing	: 100 kg
IATA - Limited Quantites	: 1 kg
ERG-Nr	: 6L



# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE AR (AMMONIUM MONOVANADATE)

## 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for substance or mixture	: Ensure all national/local regulations are observed. • the
REACH Restrictions - Annex XVII REACH Authorisation - Annex XIV	: The components of this product are not subject to restrictions. : The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment	<u>t</u>
Chemical Safety Assessment	: It has not been carried out.
Chemical Safety Assessment 16. Other information	: It has not been carried out.
	: It has not been carried out. : Revision - See : *
16. Other information	

Further information

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

: None.

## DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
  comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
  the material by a properly trained person using this product.

End of document