

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 -
Category 3 - Warning (CLP : STOT SE 3) H335
Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330
Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

2.2. Label elements

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

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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)	 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words	: Danger
Hazard statements	 H330 : Fatal if inhaled. H301 : Toxic if swallowed. H319 : Causes serious eye irritation. H315 : Causes skin irritation. H332 : Harmful if inhaled. H335 : May cause respiratory irritation.
Precautionary statements	
• Prevention	 P284: Wear respiratory protection. P280: Wear protective gloves, protective clothing, eye protection, face protection. P271: Use only outdoors or in a well-ventilated area. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
• Response	 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.
Storage	: P403+P233: Store in well-ventilated place. Keep container tightly closed. P405: Store locked up.



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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.
Danger of serious damage to health by prolonged exposure through inhalation.
Fatal if inhaled.
Causes serious eye irritation.
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).

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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



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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.
 Hand protection 	: 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.



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9. Physical and chemical properties (continued)

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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



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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



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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.





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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



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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.

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