



CYNOR LABORATORY

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

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## MATERIAL SAFETY DATA SHEET

Product Name	AMMONIUM METAVANADATE AR
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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : AMMONIUM METAVANADATE AR

Product code : A0216

Identification of the product: AMMONIUM METAVANADATE 99% AR

CAS No : 7803-55-6

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

Use: Industrial. For professional use only.

#### 1.3 Details of the supplier of the safety data sheet

Company identification: CYNOR

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### 2. Hazards identification -DSD

#### 2.1 Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : T; R25

Xn; R20

Xi; R36

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

**hazards** : Specific Target Organ Toxicity - Single exposure - Respiratory tractirritation - Category 3 - Warning (CLP : STOT SE 3) H335

Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301

#### 2.2 Label element

Labelling EC 67/548 or EC 1999/45

Symbol(s) : T : Toxic



**R Phrase(s)** : R20 : Harmful by inhalation.R25 : Toxic if swallowed.

R36 : Irritating to eyes.

R37 : Irritating to respiratory system.

**S Phrase(s)** : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 : Wear suitable gloves.

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 :** H301 : Toxic if swallowed. H319 : Causes serious eye irritation. H332 : Harmful if inhaled. H335 : May cause respiratory irritation.

**Precautionary statements**

**Prevention :** P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing 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.

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.

P337+P313: If eye irritation persists: Get medical advice/attention.

**Storage :** P403+P233: Store in well-ventilated place. Keep container tightly closed.

P405: Store locked up.

**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

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 measures**

**Inhalation :** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**Skin contact :** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Eye contact :** Get medical advice. If eye irritation persists : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion :** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label).

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#### **4.2 Most important symptoms and effects, both acute and delayed**

**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. Causes serious eye 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).

### **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 Specific 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**

**Handling :** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray.

**Technical protective measures :** Provide good ventilation in process area to prevent formation of vapour.

#### **7.2 Conditions for safe storage, including any incompatibilities**

**Storage :** Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage - away from :** Strong bases. Strong acids. Sources of ignition. Direct sunlight.

#### **7.3 Specific end use(s)**

**Specific end use(s) :** None.

## **8. Exposure controls/personal protection**

### **8.1 Control parameter**

Occupational Exposure Limits : No data available.

### **8.2 Exposure control**

Personal protection : Avoid all unnecessary exposure.

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Physical state at 20 °C : Solid.

Odour : odorless

Odour threshold : No data available.

pH value : No data available.

Melting point [°C] : 200 °C

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 [mm<sup>2</sup>/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**

### **10.1 Reactivity**

Reactivity : Not established.

### **10.2 Chemical stability**

Chemical stability : Stable under recommended storage conditions.

#### **10.3 Possibility of hazardous reactions**

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**

#### **11.1 Information on toxicological effects**

Acute toxicity

- **Inhalation** : 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. 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 : Suspected of causing cancer.

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**

#### **12.1 Toxicity**

Toxicity information : Not established.

#### **12.2 Persistence – degradability**

Persistence - degradability : Biodegradable.

#### **12.3 Bioaccumulative potential**

Bioaccumulative potential : Not established.

#### **12.4 Mobility in soil**

Mobility in soil : Not established.

#### **12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of RegulationREACH.

#### **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. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.



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**Special precautions** : Hazardous waste due to toxicity.

#### **14. Transport information**

##### **14.1 Land transport (ADR-RID)**

**Proper shipping name** : AMMONIUM METAVANADATE

UN N° : 2859

**H.I. nr** : 60

**ADR - Class** : 6.1

**Labelling - Transport** : 6.1 : Toxic substances.

LÉ

**ADR - Classification code** : T5T5

**ADR - Group** : II

**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** : AMMONIUM METAVANADATE

UN N° : 2859

**IMO-IMDG - Class or division** : 6.1 : Toxic substances.

**IMO-IMDG - Packing group** : II

**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** : II

**IATA - Passenger and Cargo Aircraft** : ALLOWED

**Passenger and Cargo - Packing** : 669

**instruction**

- **Passenger and Cargo - Maximum** : 25 kg

**Quantity/Packing**

**IATA - Cargo only** : ALLOWED

- **Cargo only - Packing instruction** : 676

- **Cargo only - Maximum Quantity/** : 100 kg

**Packing**

**IATA - Limited Quantites** : 1 kg

**ERG-Nr** : 6L

#### **15. Regulatory information**

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



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Safety, health and environmental : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

## 15.2 Chemical safety assessment

Chemical Safety Assessment : It has not been carried out.

## 16. Other information

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

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## End of document

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