

# MATERIAL SAFETY DATA SHEET (MSDS)

## AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)

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

1.1. Product identifier

Trade name : AMMONIUM METAVANADATE LR (AMMONIUM

MONOVANADATE)

**Product code** : A0024500100

Identification of the product : AMMONIUM - METAVANADATE 98%

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 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; 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 tract irritation -

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 elements

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



# MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)

## 2. Hazards identification -DSD (continued)

Symbol(s)

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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).

#### <u>Labelling Regulation EC 1272/2008 (CLP)</u>

**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



# MATERIAL SAFETY DATA SHEET (MSDS)

## AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)

## 2. Hazards identification -DSD (continued)

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 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).

### 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. Special hazards arising from the substance or mixture



# MATERIAL SAFETY DATA SHEET (MSDS)

## AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)

## 5. Fire-fighting measures (continued)

**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.

Special precautions : Avo

: Avoid breathing dust, fume, gas, mist, vapours, spray.

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



# MATERIAL SAFETY DATA SHEET (MSDS)

## **AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)**

## 7. Handling and storage (continued)

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.

7.3. Specific end use(s)

Specific end use(s) : None.

### 8. 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.

• Hand protection : Wear protective gloves.

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.

Melting point [°C] : 2000C **Decomposition point [°C]** : N/A : N/A Critical temperature [°C] Auto-ignition temperature [°C] : N/A : N/A Flammability (solid, gas) : N/A Flash point [°C] **Boiling point [°C]** : N/A : N/A Initial boiling point [°C] : N/A Final boiling point [°C]



## MATERIAL SAFETY DATA SHEET (MSDS)

## **AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)**

### 9. Physical and chemical properties (continued)

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

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



## MATERIAL SAFETY DATA SHEET (MSDS)

## **AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)**

## 10. Stability and reactivity (continued)

**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 : 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

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



# MATERIAL SAFETY DATA SHEET (MSDS)

## **AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)**

## 12. Ecological information (continued)

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 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.

Dispose of this material and its container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international regulation.

: Hazardous waste due to toxicity. Special precautions

## 14. Transport information

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

: AMMONIUM METAVANADATE Proper shipping name

: 2859 UN N° H.I. nr : 60 : 6.1 **ADR - Class** 

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

**ADR - Classification code** : T5

> T5 : 11

ADR - Group

: P002 **ADR - Packing instructions** : 500 G **ADR - Limited Quantity** 

**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.



## MATERIAL SAFETY DATA SHEET (MSDS)

# AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)

### 14. Transport information (continued)

## 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 : ||

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 669

instruction

- Passenger and Cargo - Maximum : 25 kg

Quantity/Packing

- Cargo only - Packing instruction : 676

- Cargo only - Maximum Quantity/

**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

**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



# MATERIAL SAFETY DATA SHEET (MSDS)

## **AMMONIUM METAVANADATE LR (AMMONIUM MONOVANADATE)**

## 15. Regulatory information (continued)

Chemical Safety Assessment : It has not been carried out.

#### 16. Other information

Revision - See : \*

**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.

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

#### **DISCLAIMER:**

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Page: 10