



CYNOR LABORATORY

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

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## MATERIAL SAFETY DATA SHEET

Product Name	AMMONIUM CERIC NITRATE
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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : AMMONIUM CERIC NITRATE

Product code : A0195

Identification of the product: AMMONIUM CERIC NITRATE

CAS No : 16774-21-3

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

againstUse: 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 : Xn; R22

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

Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

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

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

#### 2.2 Label element

Labelling EC 67/548 or EC 1999/45

Symbol(s) : O : Oxidizing

Xn: Harmful

Xi : Irritant



**R Phrase(s) : R8** : Contact with combustible material may cause fire

**R22** : Harmful if swallowed

R36 : Irritating to eyes.

R37 : Irritating to respiratory system.

R38 : Irritating to skin.

**S Phrase(s) : S17** : Keep away from combustible material.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 : Wear suitable protective clothing.

**Labelling Regulation EC 1272/2008 (CLP)**

**Hazard pictograms**



**Signal words : Warning**

**Hazard statements** : H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

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** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.

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.

- **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 CERIC NITRATE

CAS No :16774-21-3

Substance.

**Hazardous component(s)** : This product is not hazardous but contains hazardous components.

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** : Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep

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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. Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse.

**Eye contact :** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists : Get medical advice.

**Ingestion :** Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor if you feel unwell

#### **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. 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)..

### **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**

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



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## 7. Handling and storage

### 7.1 Precautions for safe handling

**Handling** : Wash thoroughly after handling.

Wash thoroughly after handling. Wash thoroughly after handling. Wash thoroughly after 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.

**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)

No additional information available

## 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** : Wear approved mask.

• **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

**Odour threshold** : No data available.

**pH value** : Not applicable.

**Melting point [°C]** : No data available.

**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] :** 141g/100ml water @2

**Solubility in water :** N/A

**Log Pow octanol / water at 20°C :** No data available.

## **9.2 Other information**

**Explosive properties :** 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 :** Based on available data, the classification criteria are not met.

- **Dermal :** Based on available data, the classification criteria are not met.

- **Ingestion :** Based on available data, the classification criteria are not met.

- **Corrosion :** Based on available data, the classification criteria are not met.

- **Irritation :** Based on available data, the classification criteria are not met.

**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**



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**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 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.

### **14. Transport information**

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

**Proper shipping name** : NITRATES, INORGANIC, N.O.S. (AMMONIUM CERIC NITRATE 98%)

**UN N°** : 1477

**H.I. nr** : 50

**ADR - Class** : 5.1

**Labelling - Transport** : 5.1 : Oxidizing substances.

**ADR - Classification code** : O2

**ADR - Group** : II

**ADR - Packing instructions** : P002

**ADR - Limited Quantity** : 1 KG

**ADR - Tunnel code** : E : Passage forbidden through tunnels of category E.

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

**Proper shipping name** : NITRATES, INORGANIC, N.O.S. (AMMONIUM CERIC NITRATE 98%)

**UN N°** : 1477

**IMO-IMDG - Class or division** : 5.1 : Oxidizing substances.

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

**IMO- IMDG - Packing instructions** : P002

**IMO-IMDG - Limited quantities** : 1 kg IMO-

**IMDG - Marine pollution** : Yes **EMS-Nr** : F-A

S-Q

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

**Proper shipping name** : NITRATES, INORGANIC, N.O.S. (AMMONIUM CERIC NITRATE 98%)

**UN N°** : 1477

**IATA - Class or division** : 5.1 : Oxidizing substances.

**IATA - Packing group** : II

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

- **Passenger and Cargo - Packing** : 558  
**instruction**

- **Passenger and Cargo - Maximum** : 5 kg  
**Quantity/Packing**



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**IATA - Cargo only : ALLOWED**  
- **Cargo only - Packing instruction : 562**  
- **Cargo only - Maximum Quantity/ : 25 kg**  
**Packing**  
**IATA - Limited Quantites : 2.5 kg**  
**ERG-Nr : 5L**

## **15. Regulatory information**

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

**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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The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

## **End of document**

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