

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

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

## MATERIAL SAFETY DATA SHEET

Product Name	ALUMINIUM NITRATE (NANOHYDRATE) EXTRA PURE
--------------	--

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

#### 1.1 Product identifier

Trade name : ALUMINIUM NITRATE (NANOHYDRATE) EXTRA PURE

Product code : A0136

Identification of the product: ALUMINIUM NITRATE (NANOHYDRATE) EXTRA PURE

CAS No : 7784-27-2

#### 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

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

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

### 2. Hazards identification -DSD

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification EC 67/548 or EC 1999/45

Classification : O; R8 Xi; R36

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

hazards : Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319Skin irritation

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

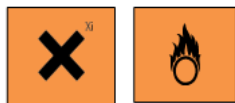
Physical hazards : Oxidizing solids - Category 1 - Danger (CLP : Ox. Sol. 1) H271

#### 2.2 Label element

Labelling EC 67/548 or EC 1999/45

Symbol(s) : Xi : Irritant

O : Oxidizing



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

R38 : Irritating to skin.

R36 : Irritating to eyes.

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 word : Danger

**Hazard statements :** H271 : May cause fire or explosion; strong oxidizer.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

**Precautionary statements**

- **Prevention :** P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.

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

P220: Keep away from clothing - combustible materials.

P264: Wash thoroughly after handling.

- **Response :** P371+P380+P375: In case of major fire and large quantities : Evacuate area. Fight fire remotely due to the risk of explosion.

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.

P306+P360: IF ON CLOTHING : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P363: Wash contaminated clothing before reuse.

P370+P378: In case of fire: Use for extinction.

- **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:** ALUMINIUM NITRATE (NANOHYDRATE) EXTRA PURE  
CAS No :7784-27-2

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

**Skin contact :** Specific treatment (see on this label). Get medical advice. If skin irritation occurs : IF ON CLOTHING : Wash contaminated clothing before reuse. Wash with plenty of soap and water. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

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

**Ingestion :** Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting

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

**Symptoms relating to use :** Causes serious eye irritation. Causes skin 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.

**Special precautions** : No naked lights. No smoking.

May cause fire or explosion; strong oxidizer.

### **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** : Wash thoroughly after handling. Wash thoroughly after handling. Wash thoroughly after handling. Take any precaution to avoid mixing with combustibles.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed.

### **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. Heat sources. Combustible material.

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

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

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

### **8.1 Control parameter**

No additional information 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**

**Physical state at 20 °C :** Solid.

**Odour threshold :** No data available.

**pH value :** Not applicable.

**Melting point [°C] :** 73°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] :** 135 °C

**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/cm<sup>3</sup>] :** 2,42

**Relative density, gas (air=1) :** N/A

**Relative density, liquid (water=1) :** N/A

**Solubility in water [% weight] :** soluble in water

**Solubility in water :** N/A

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

**Solubility :** 2.5-3.5

**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 :** May cause fire or explosion; strong oxidizer.

## **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**

**reactions :** Not established.

### **10.4 Conditions to avoid**

**Conditions to avoid :** Direct sunlight. Extremely high or low temperatures. Heat. Sparks.

Overheating. Open flame.

#### **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** : Causes serious eye 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**

**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. Hazardous waste due to potential risk of explosion.

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 :** ALUMINIUM NITRATE

**UN N° :** 1438

**H.I. nr :** 50

**ADR - Class :** 5.1

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

**ADR - Classification code :** O2

**ADR - Group :** III

**ADR - Packing instructions :** P002 R001 LP002

**ADR - Limited Quantity :** 5 KG

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

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

**Proper shipping name :** ALUMINIUM NITRATE

**UN N° :** 1438

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

**IMO-IMDG - Packing group :** III

**IMO- IMDG - Packing instructions :** P002 LP02

**IMO-IMDG - Limited quantities :** 5 kg

**IMO-IMDG - Marine pollution :** No

**EMS-Nr :** F-A S-Q

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

**Proper shipping name :** ALUMINIUM NITRATE

**UN N° :** 1438

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

**IATA - Packing group :** III

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

**- Passenger and Cargo - Packing :** 559

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

**Quantity/Packing IATA - Cargo only :** ALLOWED

**- Cargo only - Packing instruction :** 563

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

**Packing**

**IATA - Limited Quantities :** 10 kg

**ERG-Nr :** 5L

#### **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**

**Chemical Safety Assessment :** It has not been carried out.



## CYNOR LABORATORY

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

**Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507**

### **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.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

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**

**Prepared by: CYNOR**

**For questions contact: CYNOR**

**Office: CYNOR**

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

**Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507**

(The statements contained herein are offered for informational purposes only and are based upon technical data that CYNOR believes to be accurate. It is intended for use only by persons having the necessary technical skills and at their own discretion and risk. Since conditions and manner of use are outside our control, we make NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.)