

**MATERIAL SAFETY DATA SHEET**

<b>Product Name</b>	<b>AMMONIUM PERSULPHATE LR</b>
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**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name :** AMMONIUM PERSULPHATE LR

**Product code :** A0222

**Identification of the product:** AMMONIUM PERSULPHATE EXTRA PURE  
(Ammonium peroxodisulphate)

**CAS No :** 7727-54-0

**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

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 :** O; R8

Xn; R22

Xi; R36/37/38

Xn ; R42/43

**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

Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334

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

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

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

Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317

**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) :** O : Oxidizing

Xn : Harmful



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

R22 : Harmful if swallowed.

R36/37/38 : Irritating to eyes, respiratory system and skin.

R42/43 : May cause sensitization by inhalation and skin contact.

**S Phrase(s) :** S2 : Keep out of the reach of children.

S22 : Do not breathe dust. S24 : Avoid contact with skin.

S26 : In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S37 : Wear suitable gloves.

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



**Signal words** : Danger

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

H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 : May cause an allergic skin reaction.

H335 : May cause respiratory irritation.

**Precautionary statements**

- **General** : P102: Keep out of reach of children. P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

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

P285: In case of inadequate ventilation wear respiratory protection.

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.

P220: Keep away from clothing - combustible materials.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

- **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.

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

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.

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

P333+P313: If skin irritation or rash occurs : Get medical advice.

P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor.

P363: Wash contaminated clothing before reuse.

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

- **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 PERSULPHATE LR

CAS No :7727-54-0

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. If experiencing respiratory symptoms

**Skin contact :** Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Specific treatment (see on this label). Get medical advice.

**IF ON CLOTHING :** Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs :

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

**Ingestion :** Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. 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. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

Swallowing a small quantity of this material will result in serious health hazard

#### **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

**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. Avoid breathing dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area. Take any precaution to avoid mixing with combustibles. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling.

**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)**

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 :** In case of inadequate ventilation 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.

Wear fire, flame resistant, retardant clothing.

## **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]** : 120 °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** : 7.88

**Density [g/cm<sup>3</sup>]** : 1.98

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

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

**Solubility in water [% weight]** : 228 g/l at 20 °C

**Solubility in water** : N/A

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

**Solubility** : 1-2

**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** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Harmful 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** : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- 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** : AMMONIUM PERSULPHATE

**UN N°** : 1444

**H.I. nr** : 50

**ADR - Class** : 5.1



CYNOR LABORATORY

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

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

**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 : AMMONIUM PERSULPHATE**

**UN N° : 1444**

**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 : AMMONIUM PERSULPHATE**

**UN N° : 1444**

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

IATA - Packing group : III

**information : Not regulated.**

**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.



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#### **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**

**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

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