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## MATERIAL SAFETY DATA SHEET (MSDS)

### AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)

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

##### 1.1. Product identifier

Trade name : AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)  
Product code : A0025005000  
Identification of the product : Diammonium peroxodisulphate  
CAS No :7727-54-0  
EC No :231-786-5  
Annex No :016-060-00-6

##### 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 : 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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)**
**2. Hazards identification -DSD (continued)**

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

**2.2. Label elements**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**


**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.

**Contains** : Diammonium peroxodisulphate

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


**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.

### MATERIAL SAFETY DATA SHEET (MSDS)

## AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)

### 2. Hazards identification -DSD (continued)

- 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.
- Contains** : Diammonium peroxodisulphate

### 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** : Diammonium peroxodisulphate  
CAS No :7727-54-0  
EC No :231-786-5  
Annex No :016-060-00-6  
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Diammonium peroxodisulphate	100 %	7727-54-0	231-786-5	016-060-00-6	----	O; R8 Xn; R22 Xi; R36/37/38 R42/43 ----- Ox. Sol. 1 _ H271 Resp. Sens. 1 _ H334 Acute Tox. 4 (oral) _ H302 Eye irrit. 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335 Skin Sens. 1 _ H317

**MATERIAL SAFETY DATA SHEET (MSDS)**
**AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)**
**3. Composition/information on ingredients (continued)**

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**

<b>Inhalation</b>	: 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 :
<b>Skin contact</b>	: 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 :
<b>Eye contact</b>	: 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.
<b>Ingestion</b>	: 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**

<b>Symptoms relating to use</b>	: 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.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>General information</b>	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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**5. Fire-fighting measures**
**5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

<b>Flammable class</b>	: May cause fire or explosion; strong oxidizer.
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## MATERIAL SAFETY DATA SHEET (MSDS)

### AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)

#### 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.  
 In case of major fire and large quantities : Evacuate area. Fight fire remotely due to the risk of explosion.

#### 6. Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection.  
 Ventilate area.

**Special precautions** : No naked lights. No smoking.  
 May cause fire or explosion; strong oxidizer.

**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. 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.

## MATERIAL SAFETY DATA SHEET (MSDS)

### AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)

#### 7. Handling and storage (continued)

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

**Special precautions** : Avoid breathing dust, fume, gas, mist, vapours, spray.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Keep container tightly closed.

**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. Exposure controls

**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.

##### 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 crystalline

**Odour** : Odorless

**Odour threshold** : No data available.

**pH value** : Not applicable.

**Melting point [°C]** : 1200C

**MATERIAL SAFETY DATA SHEET (MSDS)**
**AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)**
**9. Physical and chemical properties (continued)**

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	: May cause fire or explosion; strong oxidizer.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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## MATERIAL SAFETY DATA SHEET (MSDS)

### AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)

#### 10. Stability and reactivity (continued)

##### 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** : 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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)**
**12. Ecological information (continued)**

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  
 Labelling - Transport : 5.1 : Oxidizing substances.



ADR - Classification code : O2

**MATERIAL SAFETY DATA SHEET (MSDS)**
**AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)**
**14. Transport information (continued)**

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
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 559
- Passenger and Cargo - Maximum Quantity/Packing	: 25 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 563
- Cargo only - Maximum Quantity/Packing	: 100 kg
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**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)**
**15. Regulatory information (continued)**

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

- Revision** : 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
- List of relevant R phrases (heading 3)** : 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.
- List of full text of H-statements in section 3** : H271 : May cause fire or explosion; strong oxidizer.  
H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 : May cause respiratory irritation.
- Further information** : None.

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**MATERIAL SAFETY DATA SHEET (MSDS)**

**AMMONIUM PERSULPHATE LR (AMMONIUM PEROXY DISULPHATE)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**