

## MATERIAL SAFETY DATA SHEET (MSDS)

### CESIUM NITRATE AR

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

##### 1.1. Product identifier

Trade name : CESIUM NITRATE AR

Product code : C0064800100

Identification of the product : CESIUM NITRATE AR 99.5%  
CAS No : 7789-18-6

##### 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  
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  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

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

##### 2.2. Label elements

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

### MATERIAL SAFETY DATA SHEET (MSDS)

### CESIUM NITRATE AR

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

Symbol(s)



Symbol(s)

: O : Oxidizing  
Xi : Irritant

R Phrase(s)

: R8 : Contact with combustible material may cause fire.  
R36 : Irritating to eyes.  
R37 : Irritating to respiratory system.  
R38 : Irritating to skin.

S Phrase(s)

: S17 : Keep away from combustible material.

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

Hazard pictograms



Signal words

: Danger

Hazard statements

: H271 : May cause fire or explosion; strong oxidizer.  
H319 : Causes serious eye irritation.  
H315 : Causes skin irritation.  
H335 : May cause respiratory 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.  
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.

• 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.  
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.  
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.

## MATERIAL SAFETY DATA SHEET (MSDS)

### CESIUM NITRATE AR

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

##### 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** : CESIUM NITRATE AR 99.5%  
 CAS No :7789-18-6  
 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** : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash contaminated clothing before reuse. Wash with plenty of soap and water. IF ON CLOTHING : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

**Eye contact** : Get medical advice. If eye irritation persists : 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. 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.

## MATERIAL SAFETY DATA SHEET (MSDS)

### CESIUM NITRATE AR

#### 5. Fire-fighting measures (continued)

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

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

## MATERIAL SAFETY DATA SHEET (MSDS)

### CESIUM NITRATE AR

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

- Handling** : Wash thoroughly after handling. Wash thoroughly after handling. Take any precaution to avoid mixing with combustibles.  
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.  
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** : Wear approved mask.
  - **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** : N/A
- Odour threshold** : No data available.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**CESIUM NITRATE AR**
**9. Physical and chemical properties (continued)**

pH value	: Not applicable.
Melting point [°C]	: 414 °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	: N/A
Density [g/cm <sup>3</sup> ]	: 3,685
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	: N/A
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**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**CESIUM NITRATE AR**
**10. Stability and reactivity (continued)**

**Hazardous 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.  
Causes skin 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**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**CESIUM NITRATE AR**
**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 : CAESIUM NITRATE  
 UN N° : 1451  
 H.I. nr : 50  
 ADR - Class : 5.1  
 Labelling - Transport : 5.1 : Oxidizing substances.



ADR - Classification code : O2  
 O2  
 O2



**MATERIAL SAFETY DATA SHEET (MSDS)**
**CESIUM NITRATE AR**
**14. Transport information (continued)**

	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	: CAESIUM NITRATE
UN N°	: 1451
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	: CAESIUM NITRATE
UN N°	: 1451
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

**MATERIAL SAFETY DATA SHEET (MSDS)**

**CESIUM NITRATE AR**

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.

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