### AMMONIUM CERIC NITRATE EXTRA PURE MSDS



## CAS-No.: 16774-21-3 MSDS

### **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
	:
CAS-No.	: 16774-21-3
Product code	: 01120
Synonyms	: Ceric ammonium nitrate

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

### 1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

### 1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Oxidising Solids, H272 Category 2 Acute toxicity (oral), H302 Category 4 Skin corrosion/irritation, H315 Category 2 Serious eye damage/eye H319 irritation, Category 2 Specific target organ H335 toxicity - Single exposure, Category 3, Respiratory tract irritation

Full text of hazard classes and H-statements : see section 16

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; Xn; Xi; R22-36-37-38

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS03 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H272 - May intensify fire; oxidiser.</li> <li>H302 - Harmful if swallowed.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P220 - Keep/Store away from clothing, combustible materials.</li> <li>P261 - Avoid breathing vapours, dust, fume, gas.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>

### 2.3. Other hazards

No additional information available

3.1.	Substances		
Name		: AMMONIUM CERIC NITRATE Extra Pure	
CAS-I	No.	: 16774-21-3	
Full te	ext of R- and H-statements: see se	action 16	
3.2.	Mixtures		
	Mixtures oplicable		
Not ap	oplicable		
Not ap			
Not a	oplicable	ures	
Not ap SECT 4.1.	ION 4: First aid measures	ures : Assure fresh air breathing. If breathing is difficult, remove victim to fresh ai at rest in a position comfortable for breathing.	ir and kee
Not ap SECT 4.1. First-a	ION 4: First aid measures Description of first aid measu	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh ai	ir and kee

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First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, and easy to do. Continue rinsing. Get medical advice/attention.		
irst-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.	
.2. Most important symptoms and (	effects both acute and delayed	
Symptoms/effects after skin contact	: Causes skin irritation.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.	
4.3. Indication of any immediate me	dical attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the	e substance or mixture	
Fire hazard	: May intensify fire; oxidiser.	
5.3. Advice for firefighters		
Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> </ul>	
SECTION 6: Accidental release measure	95	
6.1. Personal precautions, protective	e equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Use personal protective equipment as required.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Avoid release to the environment.		
3.3. Methods and material for contain		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation.	
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands and other expose areas with mild soap and water before eating, drinking or smoking and when leavin work.	
7.2. Conditions for safe storage, inc	luding any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.	

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SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

8.2. Exposure controls		
Hand protection	: Protective gloves	
Eye protection	: Chemical goggles or safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical a Physical state	nd chemical properties : Solid	
-		
Colour	: Reddish orange.	
Odour	: slight characteristic odor.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Water: 141 g/100ml @ 250C	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	

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Oxidising properties	<ul><li>The substance or mixture is classified as oxidizing with the subcategory 2.</li><li>No data available</li></ul>	
Explosive limits		
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
May intensify fire; oxidiser.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reacti	ions	
No additional information available		
10.4. Conditions to avoid		
Direct sunlight. Air contact. Moisture.		
10.5. Incompatible materials		
No additional information available		
10.6.         Hazardous decomposition pro           No additional information available           SECTION 11: Toxicological information		
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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 1477
UN-No. (IMDG)	: 1477
UN-No. (IATA)	: 1477
UN-No. (ADN)	: 1477
UN-No. (RID)	: 1477
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: NITRATES, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: NITRATES, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Nitrates, inorganic, n.o.s.
Proper Shipping Name (ADN)	: NITRATES, INORGANIC, N.O.S.
Proper Shipping Name (RID)	: NITRATES, INORGANIC, N.O.S.
Transport document description (ADR)	: UN 1477 NITRATES, INORGANIC, N.O.S., 5.1, II, (E)
Transport document description (IMDG)	: UN 1477 NITRATES, INORGANIC, N.O.S., 5.1, II
Transport document description (IATA) Transport document description (ADN)	: UN 1477 Nitrates, inorganic, n.o.s., 5.1, II : UN 1477 NITRATES, INORGANIC, N.O.S., 5.1, II
Transport document description (ADN)	: UN 1477 NITRATES, INORGANIC, N.O.S., 5.1, II : UN 1477 NITRATES, INORGANIC, N.O.S., 5.1, II

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14.3. Transport hazard class(es)			
ADR	. 54		
Transport hazard class(es) (ADR) Danger labels (ADR)	: 5.1 : 5.1		
	:		
	5.1		
	•		
IMDG	- /		
Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 5.1 : 5.1		
	. 0.1		
	:		
	5.1		
	•		
ΙΑΤΑ			
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 5.1 : 5.1		
	. 5.1		
	:		
	5.1		
	•		
ADN			
Transport hazard class(es) (ADN)	: 5.1 : 5.1		
Danger labels (ADN)	. 5.1		
	:		
	5.1		
	•		
RID			
Transport hazard class(es) (RID)	: 5.1		
Danger labels (RID)	: 5.1		
	:		
	<b>0</b>		
	5.1		
	*		
14.4. Packing group			
Packing group (ADR)	: II : II		
Packing group (IMDG) Packing group (IATA)	: II		
Packing group (ADN)	: 11		
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Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

- C	)vei	land	tran	sport
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PCA Excepted quantities (IATA)	: E2
- Air transport	
MFAG-No	fiercely. Harmful if swallowed. : 140
Properties and observations (IMDG)	: Solids. Solid mixtures with combustible material are readily ignited and may but
Segregation (IMDG)	: SG38, SG49
Stowage category (IMDG)	: • • •
EmS-No. (Spillage)	: S-Q
EmS-No. (Fire)	: F-A
Tank Instructions (IMDG) Tank special provisions (IMDG)	: TP33
IBC special provisions (IMDG) Tank instructions (IMDG)	: B21, B4 : T3
IBC packing instructions (IMDG)	: IBC08
Packing instructions (IMDG)	: P002
Excepted quantities (IMDG)	: E2
Limited quantities (IMDG)	: 1 kg
- Transport by sea	
EAC code	: 1Y
Tunnel restriction code (ADR)	: E . 1V
	1477
Orange plates	<sup>1</sup> <b>50</b>
Hazard identification number (Kemler No.)	: 50
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24
Special provisions for carriage - Packages (ADR)	: V11
Transport category (ADR)	: 2
Vehicle for tank carriage	: AT
Tank special provisions (ADR)	: TU3
Tank code (ADR)	: SGAN
Portable tank and bulk container special provisions (ADR)	: TP33
Portable tank and bulk container instructions (ADR)	: T3
Mixed packing provisions (ADR)	: MP10
Special packing provisions (ADR)	: B4
Packing instructions (ADR)	: P002, IBC08
Excepted quantities (ADR)	: E2
Limited quantities (ADR)	: 1kg
Special provisions (ADR)	: 511
Classification code (ADR)	: 02

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PCA Limited quantities (IATA)	: Y544
PCA limited quantity max net quantity	: 2.5kg
(IATA)	. 2.389
PCA packing instructions (IATA)	: 558
PCA max net quantity (IATA)	: 5kg
CAO packing instructions (IATA)	: 562
CAO max net quantity (IATA)	: 25kg
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 5L
- Inland waterway transport	
Classification code (ADN)	: 02
Special provisions (ADN)	: 511
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: 02
Special provisions (RID)	: 511
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN
Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Special provisions for carriage - Loading, unloading and handling (RID)	: CW24
Colis express (express parcels) (RID)	: CE10

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

**SECTION 15: Regulatory information** 

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

AMMONIUM CERIC NITRATE Extra Pure is not on the REACH Candidate List AMMONIUM CERIC NITRATE Extra Pure is not on the REACH Annex XIV List

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### 15.1.2. National regulations

### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
<b>Denmark</b> Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

# **15.2.** Chemical safety assessment No additional information available

SECTION 16: Other information

### Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
0	Oxidising

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product