



MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**
62/A-2 2nd Stage, Industrial Suburb
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Ammonium cerium(IV) nitrate, p.a.

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

Ammonium cerium(IV) nitrate, p.a.

Catalog Numbers:

20144-0000, 20144-1000, 20144-2500

Synonyms:

Ceric ammonium nitrate

Company Information:

LEONID CHEMICALS

62/A-2 1st Stage, Yeshwanthpur Industrial Suburb

Ashokpuram School Road

Bangalore-560 022, Karnataka, INDIA

Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	16774-21-3
Chemical Name	:	Ammonium cerium(IV) nitrate
%	:	Information not available.
EINECS#	:	240-827-6
Hazard Symbols	:	XI O
Risk Phrases	:	36 8

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes. Contact with combustible material may cause fire.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

May cause skin irritation.

Ingestion:

The toxicological properties of this substance have not been fully investigated.



Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic:

Information not available.

SECTION 4- FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Information not available.

SECTION 5- FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with combustible materials may cause a fire.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Use water only.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 - HANDLING AND STORAGE

Handling:

Material is heat, shock and/or friction sensitive. Use care in handling and storage. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard En166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Crystals
Color	:	Orange
Odor	:	Characteristic odor
PH	:	Information not available.
Vapor Pressure	:	Information not available.
Viscosity	:	Information not available.
Boiling Point	:	Information not available.
Freezing/Melting Point	:	107 - 108 deg C
Autoignition Temperature	:	Information not available.
Flash Point	:	87 deg C (188.60 deg F)
Explosion Limits, lower	:	Information not available.
Explosion Limits, upper	:	Information not available.
Decomposition Temperature	:	87 deg C
Solubility in water	:	1410 G/L AT 20°C IN WATER Specific
Gravity/Density	:	Information not available.
Molecular Formula	:	(NH ₄) ₂ Ce(NO ₃) ₆
Molecular Weight	:	548.22
Explosion Limits, lower	:	Information not available.
Molecular Formula	:	(NH ₄) ₂ Ce(NO ₃) ₆
Molecular Weight	:	548.22

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, excess heat, combustible materials.

Incompatibilities with Other Materials:

Oxidizing agents, strong reducing agents, bases, finely powdered metals.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 16774-21-3 unlisted.

LD50/LC50:

Information not available.

Carcinogenicity:

Ammonium cerium(IV) nitrate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Other

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name	:	NITRATES, INORGANIC, N.O.S.
Hazard Class	:	5.1
UN Number	:	1477
Packing Group	:	II

IMO

Shipping Name: NITRATES, INORGANIC, N.O.S.

Hazard Class: 5.1

UN Number: 1477

Packing Group: II

RID/ADR

Shipping Name: NITRATES, INORGANIC, N.O.S.

Hazard Class: 5.1

UN Number: 1477

Packing group: II

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XI O

Risk Phrases:

R 36 Irritating to eyes. R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 17 Keep away from combustible material. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 39 Wear eye/face protection.

WGK (Water Danger/Protection)

CAS# 16774-21-3: 1

United Kingdom Occupational Exposure Limits

No information available.

United Kingdom Maximum Exposure Limits

No information available.

Canada

CAS# 16774-21-3 is listed on Canada's DSL List.

CAS# 16774-21-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

No information available.

US FEDERAL

TSCA

CAS# 16774-21-3 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

