



MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**
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Ammonium Peroxydisulfate - 01340

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
Ammonium Peroxydisulfate

Catalog Numbers:
A/6120, A/6160, A/6165, A/P470, BPE179-100, BPE179-25

Synonyms:
Ammonium persulfate, peroxydisulfuric acid diammonium salt

Company Information:
LEONID CHEMICALS
62/A-2 1st Stage, Yeshwanthpur Industrial Suburb
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Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	7727-54-0
Chemical Name	:	AMMONIUM PERSULFATE
%	:	>=98.0 %
EINECS#	:	231-786-5
Hazard Symbols	:	XN O
Risk Phrases	:	22 42/43 8

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. May cause sensitization by inhalation and skin contact. Contact with combustible material may cause fire.

Potential Health Effects

Eye:
Causes eye irritation.

Skin:
Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.



Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

Causes respiratory tract irritation.

Chronic:

No information found.

SECTION 4 - FIRST AID MEASURES

Eyes:

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

Skin:

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

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

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 if cough or other symptoms appear.

Notes to Physician:

No information 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. Oxidizer. Greatly increases the burning rate of combustible materials. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

SECTION 6- ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Sweep up, then place into a suitable container for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation.

Storage:

Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Keep away from reducing agents.

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 minimize contact with skin.

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	:	Solid
Color	:	White crystalline solid.
Odor	:	Odorless.
PH	:	Information not available.
Vapor Pressure	:	Negligible.
Viscosity	:	Information not available.
Boiling Point	:	Information not available.
Freezing/Melting Point	:	248 deg F
Autoignition Temperature	:	Information not available.
Flash Point	:	Information not available.
Explosion Limits, lower	:	Information not available.
Explosion Limits, upper	:	Information not available.
Decomposition Temperature	:	120 C
Solubility in water	:	80g/100ml(25 C) (may decompose)
Specific Gravity/Density	:	1.982 (water=1)
Molecular Formula	:	(NH ₄) ₂ S ₂ O ₈
Molecular Weight	:	228.1846

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Substance is shock sensitive and thermally unstable. Decomposes when heated.

Conditions to Avoid:

High temperatures, incompatible materials, ignition sources, contact with water, metals, combustible materials, organic materials, reducing agents.

Incompatibilities with Other Materials:

Can be explosive when mixed with aluminum powder or sodium peroxide. Catalytic decomposition may occur in the presence of metals such as lead, silver, copper, magnesium, zinc, cadmium, nickel, iron, and cobalt.

Hazardous Decomposition Products:

Nitrogen oxides, oxides of sulfur, ammonia and/or derivatives, nitrogen.

Hazardous Polymerization:

Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 7727-54-0: SE0350000

LD50/LC50:

CAS# 7727-54-0: Oral, rat: LD50 = 689 mg/kg.

Carcinogenicity:

AMMONIUM PERSULFATE - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Information not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name	:	AMMONIUM PERSULPHATE
Hazard Class	:	5.1
UN Number	:	1444
Packing Group	:	III

IMO

Shipping Name	:	AMMONIUM PERSULPHATE
Hazard Class	:	5.1
UN Number	:	1444
Packing Group	:	III

RID/ADR

Shipping Name	:	AMMONIUM PERSULPHATE
Hazard Class	:	5.1
UN Number	:	1444
Packing group	:	III

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN O

Risk Phrases:

R 22 Harmful if swallowed.

R 42/43 May cause sensitization by inhalation and skin contact.

R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 15 Keep away from heat.

S 17 Keep away from combustible material.

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7727-54-0: 1

United Kingdom Occupational Exposure Limits

CAS# 7727-54-0: OES-United Kingdom, TWA 1 mg/m³ TWA (measured as S2O8)

United Kingdom Maximum Exposure Limits

No information available.

Canada

CAS# 7727-54-0 is listed on Canada's DSL List.

CAS# 7727-54-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7727-54-0: OEL-DENMARK: TWA 2 mg/m³

OEL-UNITED KINGDOM: TWA 1 mg/m³

US FEDERAL

TSCA

CAS# 7727-54-0 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.

