

CONTACT: LEONID CHEMICALS

62/A-2 1st Stage, Yeshwanthpur Industrial Suburk Ashokpuram School Road Bangalore-560 022, Karnataka, INDIA Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

MATERIAL SAFETY DATA SHEET

Adenine sulfate - 98%

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

Adenine sulfate, 98%

Catalog Numbers: 16363-0000, 16363-0250, 16363-1000

Synonyms:

1H-Purin-6-amine sulfate

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SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS # : 321-30-2

Chemical Name : Adenine sulfate

% : 98%

EINECS# : 206-286-5 Hazard Symbols : None Listed. Risk Phrases : None Listed.

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Information not available.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation:

May cause respiratory tract irritation. May be harmful if inhaled.



Chronic: 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. Get medical aid immediately.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Get medical aid immediately. Wash mouth out with water.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician: Treat symptomatically and supportively.
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.
Extinguishing Media: 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: Vacuum or sweep up material and place into a suitable disposal container.
SECTION 7 - HANDLING AND STORAGE
Handling:



Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

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 chemical goggles.

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

Solid Physical State Color white Odor odorless Not available. На Vapor Pressure Not available. Not available. Viscosity **Boiling Point** Not available. 285 deg C(decom) Freezing/Melting Point : Auto ignition Temperature Not available. Flash Point Not available. Explosion Limits, lower Not available. Explosion Limits, upper Not available. Decomposition Temperature: Not available. Solubility in water 0.4q/100ml water Specific Gravity/Density Not available. C5H5N5.0.5H2O4S

Molecular Weight 184.17

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Molecular Formula

Stable under normal temperatures and pressures.



Conditions to Avoid: Incompatible materials. Incompatibilities with Other Materials: Strong oxidizing agents. Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide. Polymerization: Will not occur. SECTION 11 - TOXICOLOGICAL INFORMATION RTFCS#: CAS# 321-30-2: AU7140000 LD50/LC50: Not available. Carcinogenicity: Adenine sulfate -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 Dispose of in a manner consistent with federal, state, and local regulations. SECTION 14 - TRANSPORT INFORMATION No information available. IMO No information available. RID/ADR



No information available.

SECTION 15 - REGULATORY INFORMATION

European/International Regulations European Labeling in Accordance with EC Directives

Hazard Symbols:

No information available.

Risk Phrases:

No information available.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection) CAS# 321-30-2:

United Kingdom Occupational Exposure Limits No information available.

United Kingdom Maximum Exposure Limits Canada CAS# 321-30-2 is listed on Canada's DSL List. CAS# 321-30-2 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits
No information available.

US FEDERAL TSCA

CAS# 321-30-2 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.

