CONTACT : LEONID CHEMICALS
62/A-2 2nd Stage, Industrial Suburb
Ashokpuram School Road, Yeshwanthpur
Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357

4-Amino-3-nitrobenzonitrile-08325

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
4-Amino-3-nitrobenzonitrile

Catalog Numbers:
SPB07643CB, SPB07643DA

Synonyms:
None Listed

Company Information:
LEONID CHEMICALS
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SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	6393-40-4
Chemical Name	:	4-Amino-3-nitrobenzonitrile
%	:	Not Available
EINECS#	:	Not Available
Hazard Symbols	:	XN
Risk Phrases	:	20/21/22 36/37/38

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye:
Causes eye irritation.

Skin:
Causes skin irritation. Harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation:

Harmful if inhaled. Causes respiratory tract irritation.

Chronic:

No information 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:
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.

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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:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:
Wear chemical goggles.

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.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Solid
Color	:	Yellow
Odor	:	Information not available.
PH	:	Information not available.
Vapor Pressure	:	Information not available.
Viscosity	:	Information not available.
Boiling Point	:	Information not available.
Freezing/Melting Point	:	158 - 161 deg C
Autoignition Temperature	:	Information not available.
Flash Point	:	Information not available.
Explosion Limits, lower	:	Information not available.
Explosion Limits, upper	:	Information not available.
Decomposition Temperature	:	Information not available.
Solubility in water	:	Information not available.
Specific Gravity/Density	:	Information not available.
Molecular Formula	:	C7H5N3O2
Molecular Weight	:	163.14

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:
No information available.

Conditions to Avoid:
Incompatible materials.

Incompatibilities with Other Materials:
Strong oxidizing agents.

Hazardous Decomposition Products:
Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization:
Has not been reported.

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SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 6393-40-4 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

4-Amino-3-nitrobenzonitrile -

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

IATA

Shipping Name	:	NITRILES, SOLID, TOXIC, N.O.S.*
Hazard Class	:	6.1
UN Number	:	3276
Packing Group	:	III

IMO

Shipping Name	:	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	:	6.1
UN Number	:	2811
Packing Group	:	III

RID/ADR

Shipping Name	:	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	:	6.1
UN Number	:	2811
Packing group	:	III

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SECTION 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:
XN

Risk Phrases:
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)
CAS# 6393-40-4: No information available.

United Kingdom Occupational Exposure Limits
No information available.

United Kingdom Maximum Exposure Limits
No information available.

Canada
None of the chemicals in this product are listed on the DSL/NDSL list. CAS# 6393-40-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits
No information available.

US FEDERAL
TSCA
CAS# 6393-40-4 is not listed on the TSCA inventory.
It is for research and development use only.

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.

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