



## MATERIAL SAFETY DATA SHEET

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** (S)-N-FMOC-2-Naphthylalanine, 95%, (98% E.E.)

**Catalog Numbers:**

36140-0000, 36140-0010, 36140-0050

**Synonyms:**

N-(9-Fluorenylmethoxycarbonyl)-2-naphthyl-L-alanine

**Company Identification:**

LEONID CHEMICALS  
62/A-2 2nd Stage, Industrial Suburb  
Yeshwanthpur, Bangalore -22, INDIA  
Ph- +91-80-23378354

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	112883-43-9
Chemical Name	:	(S)-N-FMOC-2-Naphthylalanine
%	:	95%
EINECS#	:	unlisted
Hazard Symbols	:	None Listed.
Risk Phrases	:	None Listed.

### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

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.



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#### SECTION 4 - FIRST AID MEASURES

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**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.

**Notes to Physician:**

Treat symptomatically and supportively.

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#### SECTION 5 - FIRE FIGHTING MEASURES

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**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

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**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.

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#### SECTION 7 - HANDLING AND STORAGE

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**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.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Engineering Controls:

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

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Physical State	: Powder
Color	: white to light yellow
Odor	: Not available.
PH	: Not available.
Vapor Pressure	: Not available.
Viscosity	: Not available.
Boiling Point	: Not available.
Freezing/Melting Point	: 155 deg C
Autoignition Temperature	: Not available.
Flash Point	: Not available.
Explosion Limits, lower	: Not available.
Explosion Limits, upper	: Not available.
Decomposition Temperature	NA
Solubility in water	NA
Specific Gravity/Density	NA
Molecular Formula	C <sub>28</sub> H <sub>23</sub> N <sub>4</sub> O
Molecular Weight	437.39

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## SECTION 10 - STABILITY AND REACTIVITY

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### Chemical Stability:

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, carbon dioxide.

**Hazardous Polymerization:**  
Will not occur.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**RTECS#:**  
CAS# 112883-43-9 unlisted.

**LD50/LC50:**  
Not available.

**Carcinogenicity:**  
(S)-N-FMOC-2-Naphthylalanine -  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
See actual entry in RTECS for complete information.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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NA

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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

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**SECTION 14 - TRANSPORT INFORMATION**

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**IATA**  
No information available.

**IMO**  
No information available.

**RID/ADR**  
No information available.

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## SECTION 15 - REGULATORY INFORMATION

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### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

NA

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 112883-43-9: No information available.

**United Kingdom Occupational Exposure Limits**

**United Kingdom Maximum Exposure Limits**

### Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 112883-43-9 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

### US FEDERAL

TSCA

CAS# 112883-43-9 is not listed on the TSCA inventory.

It is for research and development use only.

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## SECTION 16 - ADDITIONAL INFORMATION

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MSDS Creation Date: 8/08/2001 Revision #0 Date: Original.

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.