



## MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**  
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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** N-(9H-FLUOREN-2-YLMETHOXYCARBONYLOXY)SUCCINIMIDE, 98%

**Catalog Numbers:**

24310-0000, 24310-0050, 24310-0250

**Synonyms:**

9-Fluorenylmethyl succinimidyl carbonate, Fmoc-ONSu,  
1-(9H-Fluorenylmethoxycarbonyloxy)2,5-pyrrolidinedione

**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 #	:	82911-69-1
Chemical Name	:	N-(9H-FLUOREN-2-YLMETHOXYCARBONYLOXY) SUCCINIMIDE
%	:	98%
EINECS#	:	unlisted
Hazard Symbols	:	XI
Risk Phrases	:	36/37/38

### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

Irritating to eyes, respiratory system and skin.

**Potential Health Effects**

**Eye:**

Causes eye irritation.

**Skin:**

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

**Ingestion:**

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

**Inhalation:**

Causes 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:**

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

**Skin:**

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

**Ingestion:**

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:**

Remove from exposure and move to fresh air immediately.

**Notes to Physician:**

NA

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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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant 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:**

Clean up spills immediately, observing precautions in the Protective equipment section. Sweep up, then place into a suitable container for disposal.

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#### SECTION 7 - HANDLING AND STORAGE

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**Handling:**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:**

Keep container closed when not in use. Keep refrigerated. (Store below 4°C/39°F.)

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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 safety glasses and chemical goggles if splashing is possible.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to minimize contact with skin.

**Respirators:**

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State	: Powder
Color	: white to off-white
Odor	: Not available.
PH	: Not available.
Vapor Pressure	: Not available.
Viscosity	: Not available.
Boiling Point	: Not available.
Freezing/Melting Point	: 145.00 - 153.00 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	: insoluble
Specific Gravity/Density	: NA
Molecular Formula	: C <sub>19</sub> H <sub>15</sub> N <sub>5</sub> O <sub>5</sub>
Molecular Weight	: 337.29

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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, strong acids.

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

**Hazardous Polymerization:**  
Has not been reported.

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#### SECTION 11 - TOXICOLOGICAL INFORMATION

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**RTECS#:**  
CAS# 82911-69-1 unlisted.

**LD50/LC50:**  
Not available.

**Carcinogenicity:**  
N-(9H-FLUOREN-2-YLMETHOXYCARBONYLOXY)SUCCINIMIDE -  
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: Xi

#### Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

#### Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

#### WGK (Water Danger/Protection)

CAS# 82911-69-1: No information available.

#### United Kingdom Occupational Exposure Limits

#### United Kingdom Maximum Exposure Limits

#### Canada

CAS# 82911-69-1 is listed on Canada's DSL List.

CAS# 82911-69-1 is not listed on Canada's Ingredient Disclosure List.

#### Exposure Limits

#### US FEDERAL

#### TSCA

CAS# 82911-69-1 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: 7/16/1996 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.