

# MATERIAL DATA SAFETY SHEET

Fludarabine - Cat No. 31-V88

## 1. PRODUCT AND COMPANY INFORMATION

Product Name:	Fludarabine
Cat No:	31-V88
Company:	Reagents Direct 161 Melrose Avenue Encinitas, CA 92024
Emergency Phone:	(760) 230-8608

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## 2. COMPOSITION

Formula	$C_{10}H_{12}FN_5O_4$
Molecular Weight	285.23
CAS No.	21679-14-1

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## 3. HAZARDS IDENTIFICATION – POTENTIAL HEALTH EFFECTS

Eye	May cause skin irritation.
Skin	May cause skin irritation; may be harmful if absorbed through the skin.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if swallowed.
Ingestion	May be harmful if swallowed.

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## 4. FIRST AID MEASURES

Eyes	Check for and remove contact lenses. In case of contact, immediately flush thoroughly with water for at least 15 minutes. Call a physician.
Skin	In case of contact, immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician.
Ingestion	If swallowed, wash mouth out with water provided that the person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.
Inhalation	If inhaled, remove person to fresh air. If not breathing, give artificial respiration, with proper PPE. If breathing is difficult, call a physician.

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## 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Wear self-contained breathing apparatus for fire-fighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental Precautions

Do not let product enter drains.

Methods for containment

Pick up and arrange disposal without creating dust. Keep in a suitable, closed container for disposal.

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## 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust has formed. Follow normal measures for preventative fire protection.

Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Store at -20 degrees Celsius. Keep in a dry place.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Hand Protection

Handle with gloves.

Eye Protection

Safety glasses with side-shields conforming to EN166

Skin and Body Protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystalline Solid
Color	White-Pale Yellow
Melting Point	No Data Available
Boiling Point	No Data Available
Flash Point	No Data Available
Solubility	DMSO

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### 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Exposure to moisture may affect product quality.
Materials to Avoid	Strong Oxidizing Agents

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### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity	No Data Available
Skin Corrosion/ Irritation	No Data Available
Serious Eye Damage	No Data Available
Respiratory or skin damage	No Data Available

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### 12. ECOLOGICAL INFORMATION

Ecotoxicity	No Data Available
Toxicity Biodegradation	No Data Available

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### 13. DISPOSAL CONDITIONS

Waste Disposal Method	Waste must be disposed of in accordance with federal, state and local government control regulations.
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### 14. TRANSPORT INFORMATION

Proper Shipping Name	None
Hazard Class	This product is considered non-hazardous for transport.

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### 15. REGULATORY INFORMATION

U.S. Federal Regulations	
SARA 313 – Not SARA Listed	
U.S. State Regulations	
California Proposition 65 – No products were found.	
WHMIS Hazard Class – Not controlled under WHMIS (Canada)	

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### 16. OTHER INFORMATION

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Notice – The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to safety precautions. It does not represent any guarantee of the properties of the product. Reagents Direct shall not be held liable for any damage resulting from handling from contact with the product. See Reagents Direct website for terms and conditions for sale.

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