



# Safety Data Sheet (SDS)

www.medkoo.com

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## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product name: Gemcitabine free base  
Product Catalogue Number: 123210  
Brand: MedKoo Biosciences  
CAS-No: 95058-81-4

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Synthesis of substances.

### 1.3 Details of the supplier of the safety data sheet

Company: MedKoo Biosciences, Inc.  
2500 Gateway Centre Blvd. Suite 400, Morrisville, NC27560, USA  
Telephone: 919-636-5577  
Fax: 919-980-4831

### 1.4 Emergency telephone number

For chemical emergency spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Reproductive toxicity (Category 1B), H360

### 2.2 Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statement(s)

H360: May damage fertility or the unborn child.

#### Precautionary statement(s)

P201: Obtain special instructions before use.  
P281: Use personal protective equipment as required.  
P308 + P313: IF exposed or concerned: Get medical advice/ attention.  
P391: Collect spillage.

### 2.3 Other hazards – no data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms: LY-188011; LY 188011; LY188011; dFdC; dFdCyd; Gemzar  
Formula:  $C_9H_{11}F_2N_3O_4$   
Molecular weight: 263.20  
CAS-No: 95058-81-4

Component	Classification	Concentration
Gemcitabine free base	Repr. 1B; H360	<= 100 %

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a doctor and show this safety data sheet.

#### If inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In case of skin contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In case of eye contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

**If swallowed**

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

In combustion, may emit toxic fumes.

**5.3 Precautions for fire-fighters**

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13 of SDS.

**6.4 Reference to other sections**

For required PPE see section 8. For disposal see section 13.

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**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities.**

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

Recommended storage temperature: Store at -20°C

**7.3 Specific end uses**

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Appropriate engineering controls**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place.

Ensure laboratory is equipped with a safety shower and eye wash station.

**Personal protective equipment****Eye/face protection**

Use appropriate safety glasses.

**Skin protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

**Body protection**

Wear appropriate protective clothing.

**Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

Appearance	White to off white solid	Vapor pressure	No data available
Odor	No data available	Vapor density	No data available
Odor threshold	No data available	Relative density	No data available
pH	No data available	Solubility(ies)	~2 mg/ml in PBS (pH 7.2); ~0.25 mg/ml in EtOH; ~5 mg/ml in DMSO; ~0.1 mg/ml in DMF
Melting / freezing point	No data available	Partition coefficient	No data available
Boiling point / range	No data available	Auto-ignition temperature	No data available
Flash point	No data available	Decomposition temperature	No data available
Evaporation rate	No data available	Viscosity	No data available
Flammability (solid, gas)	No data available	Explosive properties	No data available
Upper / lower flammability or explosive limits	No data available	Oxidising properties	No data available

## 9.2 Other safety information

No data available

## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4 Conditions to avoid

Heat, moisture.

### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

### 10.6 Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

#### Acute Toxicity

Gemcitabine - Toxicity Data: Intraperitoneal TDLO (mouse): 400 mg/kg; Intraperitoneal TDLO(human): 5.38 mg/kg/24H

Investigated as a drug, mutagen, natural product, and tumorigen.

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated

#### Additional Information

RTECS No: HA3835000

## 12. ECOLOGICAL INFORMATION

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### 12.1 Toxicity

Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

### 13. DISPOSAL CONSIDERATIONS

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#### 13.1 Waste treatment methods

##### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

##### Contaminated packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

### 14. TRANSPORT INFORMATION

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Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

#### 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

#### 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

#### 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

#### 14.5 Environmental hazards

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

#### 14.6 Special precautions for users

No data available

### 15. REGULATORY INFORMATION

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This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

#### California Proposition 65

Not applicable

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

### 16. OTHER INFORMATION

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#### Further Information

Copyright © Medkoo Bioscience. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. See [www.medkoo.com](http://www.medkoo.com) for additional terms and conditions of sale.

#### Preparation Information

MedKoo Biosciences, Inc.

Product Safety – multiple Region

Tel: 919-636-5577

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