

## Safety Data Sheet

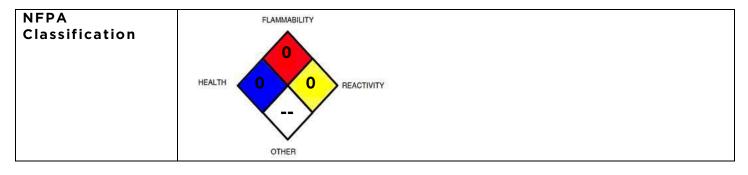
Section 1: Product & Company Identification		
Product Name:	Gemcitabine Hydrochloride	
Product #:	G-2336	
Synonyms:	Gamcitabine; Gemcitera	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / I	nformatio	n on Ingre	dients
Component	CAS#	EC #	% Composition

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Gemcitabine Hydrochloride	122111-03-9	-	≥98

Section 3: H	azards Identification
Symbols	
HMIS Classification	FLAMMABILITY HEALTH 0 0 REACTIVITY OTHER





#### **Section 4: First Aid Measures**

General	Consult a physician. Show this safety data sheet to the doctor in attendance.	
Overview:	Move out of dangerous area.	
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial	
	respiration. Consult a physician.	
Skin:	Wash off with soap and plenty of water. Consult a physician.	
Eyes:	Flush eyes with water as a precaution.	
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with	
	water. Consult a physician.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5: Fire Fighting Measures			
Flammability of the product:	Not flammable or combustible		
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.		
Hazardous thermal (de)composition products:	Hazardous decomposition products formed under fire conditions— carbon oxides, nitrogen oxides, hydrogen chloride gas, hydrogen fluoride.		
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.		
Flash Point:	No data available		

Section 6: Accidental Release Measures		
Personal	<b>Personal</b> Use personal protective equipment. Avoid dust formation. Avoid breathing	
Precautions:	vapors, mist, gas, or dust. Ensure adequate ventilation. Evacuate personnel to	
	safe areas.	
Environmental	<b>Environmental</b> Prevent further leakage or spillage if safe to do so. Do not let product enter	
Precautions:	drains.	
Methods for	<b>Methods for</b> Pick up and arrange disposal without creating dust. Sweep up and shovel.	
Clean-up:	Keep in suitable, closed containers for disposal.	



#### **SECTION 7: Handling & Storage**

Storage:	Keep container tightly closed in a dry and well-ventilated place.
	Recommended storage temperature: -20°C
Handling:	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

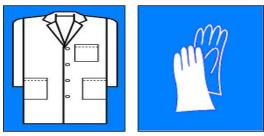
#### **SECTION 8: Exposure controls / Personal Protection**

**Respiratory Protection:** 



Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a fullface supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin and Body:



Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eyes:



	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Ventilation/Engineering Measures:	N/A
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties		
Appearance & Odor:	White solid	
Formula	$C_9H_{11}F_2N_3O_4 \bullet HCI$	
Molecular Wt.	299.66	
Melting Pt.	No data available	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
<b>Evaporation Rate:</b>	No data available	
Vapor Density:	No data available	
Solubility:	DMSO, Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Carbon oxides, nitrogen oxides, hydrogen chloride gas, hydrogen fluoride	
Materials to Avoid:	Strong oxidizing agents	
Conditions to avoid:	No data available	



SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	TDLo Parenteral – human – female – 300 mg/kg: Remarks0 Lungs, thorax, or respiration: fibrosis, focal (pneumoconiosis), and other changes. LD50 Intravenous – rat – 236 mg/kg LD50 Intravenous – mouse – 500 mg/kg	
CHRONIC Toxicity:	N/A	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<ul> <li>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</li> <li>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</li> <li>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</li> <li>EPA: No classification on carcinogenic data is available from EPA</li> </ul>	

# SECTION 12: Ecological Information

General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
Corrosivity Characteristic:	No data available
	No data available
Other adverse effects:	No data available
potential:	
Bioaccumulative	No data available
degradability:	
Persistence and	No data available
Mobility:	No data available
Ecotoxicity:	No data available

SECTION 13: Disposal Considerations	
Residue Waste or Unused product:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact licensed professional waste disposal service to dispose of this material.
Contaminated Packaging:	Dispose of as unused product.



SECTION 14: Transportation Information		
UN ID#:	N/A	
ADR / RID (LAND):	Not regulated	
DOT regulations:	Not regulated	
IMDG/IMO (SEA):	Not regulated	
IATA/DGR (AIR):	Not regulated	
Special Provisions:	N/A	

SECTION 15: Regulatory Information		
Health Phrases:	H360 May damage fertility or the unborn child.	
Risk Phrases:	P201 Obtain special instructions before use.	
	P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.	
	P308+P313 IF exposed or concerned: Get medical advice/attention.	
Safety Phrases:	N/A	
EU Regulations:	R46, S36/37, S45, S53	
US Regulations:	TSCA: Not listed	
	California Proposition 65: Not listed	
	New Jersey State Right to Know: Listed	
	Pennsylvania State Right to Know: Listed	
U.S. Federal	SARA 302/304 emergency planning and notification: No products were	
Regulations:	found.	
	SARA 311/312 MSDS distribution-chemical inventory-hazard	
	identification: Chronic Health Hazard	
	SARA 313 toxic chemicals notification and release reporting: No products were found.	
	Clean Water Act (CWA) 307: No products were found.	
	Clean Water Act (CWA) 311: No products were found.	
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.	
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found.	
	Clean Air Act (CAA) 112 regulated toxic substances: No products were found.	
	OSHA: Reproductive toxicity (Cat. 1B)	
WHMIS (Canada):	N/A	

### **SECTION 16:** Other Information

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