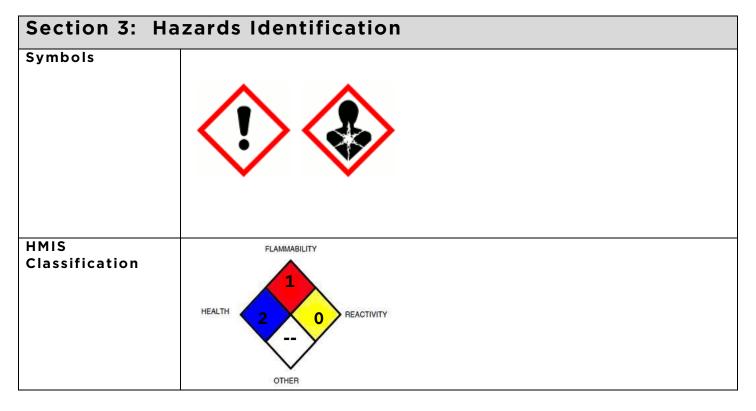


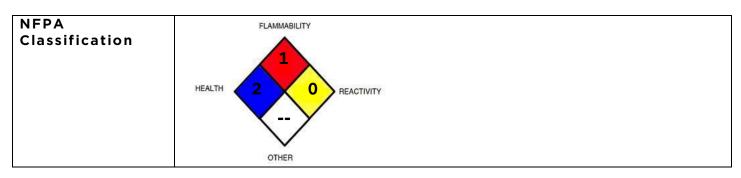
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Decitabine	
Product #:	A-2171	
Synonyms:	5-Aza-2'-deoxycitidine; 5Aza-CdR; 2'-deoxy-5-azacytidine	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925 Fax# + 858-452-9926	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
Decitabine	2353-33-5	-	







Section 4: First Aid Measures		
General	Consult 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:	Rinse mouth with water. Drink 2 glasses of water. Never give anything by	
	mouth to an unconscious person. Consult a physician.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5: Fire Fighting Measures		
Flammability of	No data available	
the product:		
Extinguishing	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Fight	
Media:	fire according to surrounding conditions.	
Hazardous	Carbon oxides, Nitrogen oxides (NOx)	
thermal		
(de)composition		
products:		
Special Fire	Wear self-contained breathing apparatus for firefighting if necessary.	
Fighting		
Procedures:		
Flash Point:	No data available	

Section 6: Accidental Release Measures		
Personal Precautions:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.	
Environmental Precautions:	Do not let product enter drains.	



Methods for	Pick up and arrange disposal without creating dust using wet towels, for
Clean-up:	example. Keep in suitable, closed containers for disposal. Offer surplus and
	non-recyclable solutions to a licensed disposal company.

SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed in a dry and well-ventilated place. Store at -20°C.
Handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Do not inhale substance/mixture.

SECTION 8: Exposure controls / Personal Protection **Respiratory Protection:** Wear NIOSH / MSHA approved respirator if required. Skin and Body: Handle with gloves. Impervious clothing. Eyes: Tightly fitting safety goggles. Face shield. Ventilation/Engineering Provide regular cleaning of equipment, work area and clothing. Measures: Hygiene: Handle in accordance with good industrial hygiene and safety practice.



Other:	This product does not contain any hazardous materials with occupational exposure limits established by region-specific
	regulatory bodies.

SECTION 9: Physical and Chemical Properties		
Appearance &	White powder	
Odor:		
Formula	$C_8H_{12}N_4O_4$	
Molecular Wt.	228.21	
Melting Pt.	No data available	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
Evaporation Rate:	No data available	
Vapor Density:	No data available	
Solubility:	Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous	Carbon oxides, Nitrogen oxides (NOx)	
decomposition		
products:		
Materials to Avoid:	Strong oxidizing agents	
Conditions to avoid:	No data available	

SECTION 11: Toxicological Information		
RTECS#:	XZ3017500	
ACUTE Toxicity:	Oral LD50 = 572 mg/kg (Mouse) Intraperitoneal LD50 = 190 mg/kg (Mouse) Intravenous LD50 = 22 mg/kg (Mouse)	
CHRONIC Toxicity:	The chemical, physical, and toxicological properties have not been thoroughly investigated. Nausea, headache, vomiting, liver injury may occur.	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: 2A - Group 2A: Probably carcinogenic to humans (5-Azacytidine) 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. NTP: Reasonably anticipated to be a human carcinogen (5-Azacytidine)	



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.
EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ecological Information		
Ecotoxicity:	Toxicity to algae NOEC - Lemna minor (duckweed) - 0.068 mg/l - 7 d	
Mobility:	No data available	
Persistence and degradability:	No data available	
Bioaccumulative potential:	No data available	
Other adverse effects:	No data available	
Corrosivity Characteristic:	No data available	
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.	

SECTION 13: Disposal Considerations		
Residue Waste or Unused product:	Offer surplus and non-recyclable product and packaging to a licensed disposal company.	
Contaminated Packaging:	Dispose of as unused product.	

SECTION 14: Transportation Information		
UN ID#:	3077	
ADR / RID (LAND):	N/A	
DOT regulations:	Not regulated	
IMDG/IMO (SEA):	UN number: 3077	
	Class: 9	
	Packing group: III	
	EMS-No: F-A, S-F	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-	
	Amino-1-β-D-ribofuranosyl-1,3,5-triazin-2(1H)-one)	
	Marine pollutant: yes	
IATA/DGR (AIR):	UN number: 3077	
	Class: 9	
	Packing group: III	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4-	
	Amino-1-β-D-ribofuranosyl-1,3,5-triazin-2(1H)-one)	
Special Provisions:	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single	
	packagings and combination packagings containing inner packagings	



with Dangerous Goods > 5L for liquids or > 5kg for solids. *Packages
smaller than or equal to 5 kg or L , not dangerous goods of Class 9

SECTION 15: R	egulatory Information	
SECTION 15: Regulatory Information		
Health Phrases:	DANGER	
	H302 - Harmful if swallowed	
	H315 - Causes skin irritation	
	H319 - Causes serious eye irritation	
	H335 - May causes respiratory irritation	
	H341 - Suspected of causing genetic defects	
	H350 - May cause cancer	
	H360 - May damage fertility or the unborn child	
	H372 - Causes damage to organs through prolonged or repeated	
	exposure	
	H410 - Very toxic to aquatic life with long lasting effects	
Risk Phrases:	P201 - Obtain special instructions before use.	
	P202 - Do not handle until all safety precautions have been read and	
	understood.	
	P261 - Do not breathe dust/fume/gas/mist/vapors/spray	
	P264 - Wash skin thoroughly after handling	
	P270 - Do not eat, drink or smoke when using this product	
	P273 - Avoid release to the environment	
	P280 - Wear protective gloves/protective clothing/eye protection/face	
	protection	
	P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER/doctor if	
	you feel unwell. Rinse mouth.	
	P302 + P352 - If on skin: Wash with soap and water	
	P305 + P351 + P338 - If in eyes: Rinse with water for several minutes.	
	Remove contact lenses. Rinse again	
	P308 + P313 - IF exposed or concerned: Get medical advice/attention	
	P391 - Collect spillage	
	P405 - Store locked up	
	P501 - Dispose of contents/ container to an approved waste disposal	
	plant	
Safety Phrases:	N/A	
EU Regulations:	N/A	
US Regulations:	TSCA: Not listed	
	California Proposition 65: Carcinogen - Decitabine (CAS 2353-33-5)	
	Beatrachia i reposition dei caramogen. Beatrachia (e/ite 2000 de e/	
	New Jersey State Right to Know: Decitabine (CAS 2353-33-5)	
	Massachusetts State Right to Know: Decitabine (CAS 2353-33-5)	
	Pennsylvania State Right to Know: Decitabine (CAS 2353-33-5)	
U.S. Federal	SARA 302/304 emergency planning and notification: No products were	
Regulations:	found.	
	SARA 311/312 MSDS distribution-chemical inventory-hazard	
	identification: Acute Health Hazard, Chronic Health Hazard	
	identification. Acute fleatin flazard, Chronic fleatin flazard	



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: Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315 Eys irritation (Category 2A), H319

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1A), H350

Reproductive toxicity (Category 1B), H360

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Specific target organ toxicity - repeated exposure (Category 1), H372

Long-term (chronic) aquatic hazard (Category 1), H410

WHMIS (Canada):

N/A

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.