

Azacitidine for injection

# **SAFETY DATA SHEET**

# Section 1: Identification

Common/Trade Name: Azacitidine for injection, 100 mg/vial

Manufacturer's Name: Shilpa Medicare Limited, Jadcherla, Telangana State, India.

Emergency Telephone Number: +91-8532-235876

Chemical Family: Antineoplastic Agents

Product Use: Pharmaceutical product used for treatment of patients with myelodysplastic syndrome

# Section 2: Hazard(s) Identification

**Patients/Consumers:** Please refer to the product information insert or product label for appropriate consumer-specific information about this product when used according to the physician's directions. Pharmaceutical Agent – Handling of this product in its final form presents minimal occupational exposure risk.

**Classification of the Substance or Mixture** 

Classification (GHS-US):

Comb. Dust	
Acute Tox. 4 (Oral)	H302
Carc. 1B	H350
Full text of H-phrases: see	e section 16

<u>Label Elements</u> GHS-US labeling Hazard pictograms (GHS-US):



Appearance: Lyophilized white powder in vial Signal Word (GHS-US): DANGER Hazard statements (GHS-US):

> Comb. Dust - May form combustible dust concentrations in air H302 - Harmful if swallowed H350 - May cause cancer



Precautionary stat	ements (GHS-US	5):			
		P201 -	Obtain spe	cial instructions before use	
		P202 -	Do not ha	andle until all safety preca	autions have been
			read and u	inderstood.	
		P264 -	Wash han	ds, forearms and exposed	areas thoroughly
			after hand	ling.	
		P270 -	Do not eat	, drink or smoke when using	g this product.
		P280 -	Wear pro	otective clothing, protec	tive gloves, eye
			protection		
		P301+P31	2 - If : un	swallowed: Call a POISON well.	CENTER if you feel
		P308+P31	3 - If ad	exposed or concerned vice/attention.	d: Get medical
		P330 -	Rinse mou	th.	
		P405 -	Store locke	ed up.	
		P501 -	Dispose of	contents/container in acco	ordance with local,
			regional,	national, territorial,	provincial, and
			internation	nal regulations.	
Hazard Overview: Contains a pharmacologically active compound currently indicated for the treatment of certain myelodysplastic syndromes. The physical, chemical, and ecological properties of this material have not been fully characterized. Exposure by any route should be minimized. Exercise due care: wear suitable protective clothing, gloves and eye/face protection.					
Statement of Know	<b>vn Hazard</b> · Cor	ntains azacit	idine: Proh	ahle human carcinogen. May	
bematological toxicity, gastrointectinal effects, fover, fatigue and					
	ecc	hvmosis. Po	tential repr	oductive/developmental to	xicant.
		,			
	Section 3:	Compositio	on / Inforn	nation on Ingredients	
	Ingredient(s):	CAS #	% (by wt)	Classification (GHS-US)	
	Azacitidine	320-67-2	50%	Acute Tox. 4 (Oral), H302	
				Carc. 1B, H350	
	D-Mannitol	69-65-8	50%	Comb. Dust	
	Section 4: First-Aid Measures				
Description of First	t Aid Measures				
General: Nev	ver give anything	g by mouth	to an uncor	scious person. If you feel ur	nwell, seek medical
adv	vice (show the la	bel where p	ossible).	. ,	
Inhalation: The	e risk of inhalatio	n exposure	is negligible	e when product is in its final	packaged form. If



	exposed and becom symptoms persist.	ne symptomatic, move to fresh air and get medical attention if
Skin Contact:	Basic hygiene and a	ppropriate precautions should prevent skin contact. If skin contact
	occurs, wash affect	ed area with soap and water for at least 15 minutes. Should skin
	irritation, allergic re	eaction, or rash occur, remove contaminated clothing (if required)
	and seek medical a	dvice
Eve Contact:	The risk of eve expo	osure is negligible when product is in its final packaged form. If eve
Lyc contact.	contact occurs flus	h immediately with water for at least 15 minutes. If easy to do
	remove contact len	ses Get medical attention
Ingestion.	Ingestion is not an a	anticipated route of exposure. If accidental ingestion occurs flush
ingestion.	mouth out with wat	ter and get medical attention
	mouth out with wa	
Most Importar	nt Symptoms and Eff	ects Both Acute and Delayed
General:	Harmful if sw	allowed. Please refer to the package insert for more detailed
	information.	
Inhalation:	May be harm	ful if inhaled.
Skin Contact:	May be harm	ful in contact with skin.
Eye Contact:	May be absorbed through the eyes.	
Ingestion:	Harmful if swallowed.	
Injection:	i: Not available	
Chronic symptom	oms: May cause ca	incer.
Indication of A	ny Immediate Medi	cal Attention and Special Treatment Needed
	If exposed or	concerned, get medical advice and attention. In the event of
	accidental inj	ection, go immediately to the hearest emergency room.
		Section 5: Fire-Fighting Measures
Extinguishing N	<u>Media</u>	
Suitable exting	uishing media:	Use extinguishing media appropriate for surrounding fire.
Unsuitable ext	inguishing media:	Do not use a heavy water stream. Use of heavy stream of water
		may spread fire.
Special Hazard	s Arising From the S	ubstance or Mixture
Fire hazard:		Combustible.
Explosion haza	rd:	Product itself is not explosive but if dust is generated, dust clouds
		suspended in air can be explosive.
Reactivity:		Hazardous reactions will not occur under normal conditions.
Advice for Fire	fighters	
Precautionary	measures fire:	Exercise caution when fighting any chemical fire.
Firefighting ins	structions:	Use water spray or fog for cooling exposed containers.



Protection during firefighting	g: Do not enter fire area without proper protective equipment,	
	including respiratory protection.	
Hazardous Combustion Prod	ucts: Carbon oxides (CO, CO <sub>2</sub> ). Nitrogen compounds.	
Other information:	Refer to Section 9 for flammability properties.	
	Section 6: Accidental Release Measures	
Personal Precautions, Protec	tive Equipment and Emergency Procedures	
General measures:	Avoid generating dust. Do not breathe dust. Do not get in eyes, on skin, or	
	on clothing.	
For Non-Emergency Personn	<u>el</u>	
Protective equipment:	Use appropriate personal protection equipment (PPE).	
Emergency procedures:	Evacuate unnecessary personnel.	
Por Emergency Personner	Equip cleanup crow with proper protection	
Protective equipment.	Equip cleanup crew with proper protection.	
Environmental Precautions	Prevent entry to sewers and nublic waters	
<u>Environmental i recautions</u>	revent entry to sewers and public waters.	
Methods and Material for Co	ontainment and Cleaning Up	
Methods for cleaning up:	<b>tods for cleaning up</b> : For small quantities associated with normal therapeutic use, collect	
	spillage and transfer to a closed waste container for disposal. For large or	
	bulk quantities, after absorption with inert material, collect spillage by	
	sweeping up spilled material and place in a labeled, sealed container for	
	proper disposal. Avoid generation of dust during clean-up of spills.	
Reference to Other Sections		
	See heading 8, Exposure Controls and Personal Protection.	
	Section 7: Handling and Storage	
Precautions for Safe Handlin	g	
Patients/Consumers:	Patients should adhere to the instructions provided within the	
	product information insert or product label for appropriate	
	consumer-specific information about this product when used	
	according to the physician's directions.	
Additional hazards when pro	<b>Cessed:</b> May form combustible dust concentrations in air.	
Hygiene measures:	This SDS is for a pharmaceutical agent - Handling of this product	
	in its final form presents minimal occupational exposure risk. In	
	an occupational setting, nanule in accordance with good	
	eves skin and clothing. Avoid breathing dust like appropriate	
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Conditions for Safe Storage, Including Any Incompatibilities         Storage conditions:       Store in a dry, cool and well-ventilated place. Protect from heat and direct sunlight.         Specific End Use(s)       Pharmaceutical. Refer to product insert for usage instructions and product information.         Section 8: Exposure Controls / Personal Protection         Control Parameters         For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.         Exposure Controls         Appropriate engineering controls:         Not generally required. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
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<b>Personal protective equipment:</b> In case of dust production: protective goggles. Gloves. Insufficient
ventilation: wear respiratory protection.
Hand protection: Wear protective gloves made from PVC, neoprene, nitrile, vinyl, or
PVC/NBR.
Eye protection: In laboratory, medical or industrial settings, or operations in which
airborne particulates will be generated, safety glasses with side
shields are recommended.
Skin and body protection: In laboratory, medical or industrial settings, impervious disposable
gloves and protective clothing are recommended if skin contact
with drug product is possible.
<b>Respiratory protection</b> : When manufacturing or handling product in large quantities and
dusts or particulates may be generated, maintain airborne
concentrations below recommended limits. Workplace risk
assessments should be completed before specifying and
implementing respirator usage. NIOSH/MSHA approved respirators
for protection should be used if respirators are found to be
necessary.



	Section 9: Physical and Chemical Properties
The following data descr	ibe the active ingredient, azacitidine.
Physical State:	Solid
Color:	White to off-white
Molecular Formula:	C8H12N4O5
Molecular Weight:	244.2
pH:	Not available
Melting Point:	225-230°C
Solubility in Water:	Slightly soluble

## Section 10: Stability and Reactivity

Reactivity:	Hazardous reactions will not occur under normal conditions.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Direct sunlight. Extremely high or low temperatures.
Incompatible Materials:	Strong oxidizers. Strong bases. Strong acids.
Hazardous Decomposition Products:	Carbon oxides (CO, CO2). Nitrogen compounds
Hazardous Polymerization:	Not expected to occur

# Section 11: Toxicological Information

The following data describe the active ingredient, azacitidine.

# Acute Toxicity:

LD50 oral, mouse: 572 mg/kg LD10 IV, mouse: 87-199 mg/kg LD50 IV, mouse: 117-250 mg/kg LD10 IV, rat: 38 mg/kg LD50 IV, rat: 51 mg/kg LD50 IV, dog LethalIV Dose, dog 13.3 mg/kg

#### **Repeat Dose Toxicity:**

Repeat-dose toxicity studies have been conducted in mice, dogs and monkeys. The main target organs of toxicity were the bone marrow, liver, kidneys and lymphoid tissue.

5-day IV study, dog: No-observed-adverse-effect level (NOAEL) = 0.28 mg/kg/day.

14-day oral study, dog: NOAEL ≈ 0.2 mg/kg/day.
14-day IV study, monkey: A dose of 2.2 mg/kg/day caused mortality, while 1.1 mg/kg/day caused



leukopenia, anemia, elevated liver enzymes and increased BUN.

#### Irritation/Sensitization:

Mild skin irritation was observed when a 9% solution of azacitidine was topically applied to rabbits. No data on sensitization was identified.

## Genotoxicity:

Azacitidine was a weak mutagen in several bacterial systems. It was both mutagenic and clastogenic in mammalian cell systems. Additionally, it induced mitotic recombination and mutations in *Drosophila*. Azacitidine did not induce dominant lethal mutations in mice.

## Carcinogenicity:

The potential carcinogenicity of azacitidine was evaluated in mice and rats. Azacitidine induced tumors of the hematopoietic system in female mice at 2.2 mg/kg administered IP three times per week for 52 weeks. An increased incidence of tumors of the lymphoreticular system, lung, mammary gland, and skin was seen in mice treated with azacitidine IP at 2.0 mg/kg once a week for 50 weeks. A tumorigenicity study in rats dosed twice weekly at 2.5 of 10 mg/kg revealed an increased incidence of testicular tumors.

## **Reproductive and Developmental Toxicity:**

Intraperitoneal (IP) administration of azacitidine to male mice at 3.3 mg/kg daily for 3 days prior to mating resulted in decreased fertility and loss of offspring during embryonic and postnatal development periods. Treatment of male rats three times per week for 11 or 16 weeks at IP doses of 2.5 to 5 mg/kg resulted in reduced weight of the testes and epidydimides, and decreased sperm counts accompanied by lower pregnancy rates and increased loss of embryos in mated females. In a related study, male rats treated IP for 16 weeks at 24 mg/m2 resulted in an increase in abnormal embryos in mated females when examined on day 2 of gestation.

Early embryotoxicity studies in mice revealed a ~44% frequency of intrauterine embryonic death after a single IP injection of 6 mg/m2 azacitidine on gestation day 10. Developmental abnormalities in the brain have been detected in mice given azacitidine on or before gestation day 15 at ~12 mg/m2 IP. In rats, azacitidine was clearly embryotoxic when given IP on gestation days 4-8 at a dose of 6 mg/m2, although treatment earlier in gestation had no adverse effects on the embryos. Azacitidine caused multiple fetal abnormalities in rats after a single IP dose of 3 to 12 mg/m2 given on gestation day 9, 10, 11 or 12. The fetal abnormalities included: exencephaly/encephalocele, micromelia, club foot, syndactyly, oligodactyly, micrognathia, gastoschisis, edema and rib abnormalities. An increased incidence of leukemia and other malignant neoplasms has also been observed in the offspring of pregnant mice treated with azacitidine at doses lower than the human therapeutic dose.

#### **Human Clinical Data**

The recommended subcutaneous dose of azacitidine is 75 mg/m2 daily for 7 days, every 4 weeks. The most commonly occurring adverse effects with therapeutic use include hematological toxicity (*e.g.*,



thrombocytopenia, anemia, neutropenia), fever, gastrointestinal effects (*e.g.*, nausea, vomiting, diarrhea, constipation), fatigue, injection site erythema, ecchymosis (skin discoloration caused by escape of blood into tissues from ruptured blood vessels).

Azacitidine has been reported as a human skin/eye irritant. It is reasonable to assume that it may also be irritating to other mucous membranes (*e.g.*, respiratory tract).

# Section 12: Ecological Information

Toxicity Not available Persistence and Degradability Not available Bioaccumulative Potential Not available

Section 13: Disposal Considerations		
Waste disposal recommendations: Additional information:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. Do not dispose of waste into sewer. Contaminated sharps should be discarded immediately or as soon as possible in containers that are closable, puncture-resistant, leak proof on sides and bottoms, and appropriately labeled. Contact your local health department for referral to a Safe Syringe Disposal Program.	
Se	ection 14: Transport Information	
In Accordance With ICAO/IATA/DOT UN Number Not regulated for transp UN Proper Shipping Name Not regula	<b>/TDG</b> Port ated for transport	
Se	ction 15: Regulatory Information	
US Federal Regulations Azacitidine for Injection, 100 mg SARA Section 311/312 Hazard Classe	25:	
	Immediate (acute) health hazard , Delayed (chronic) health hazard	
D-Mannitol (69-65-8):	Listed on the United States TSCA (Toxic Substances Control Act) inventory	
US State Regulations		
5-Azacytidine (320-67-2)		
U.S California - Proposition 65 - Ca	rcinogens List:	
	of California to cause cancer	
5-Azacytidine (320-67-2)		



U.S. - Illinois - Toxic Air Contaminant Carcinogens

U.S. - Illinois - Toxic Air Contaminants

RTK - U.S. - Massachusetts - Right To Know List

# **Canadian Regulations**

#### Azacitidine for Injection, 100 mg

WHMIS Classification: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects



## D-Mannitol (69-65-8)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification: Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Section 16: Other Information		
Revision Date:	10 Nov 2016	
Data sources:	This document has been prepared in accordance with the SDS requirements of the	
	OSHA Hazard Communication Standard 29 CFR 1910.1200.	
Other information:	This document has been prepared in accordance with standards for workplace	
	safety. The precautionary statements and warnings included might not apply in all	
	cases. Your needs may vary depending on the potential for exposure in your	
	workplace.	
<b>GHS Full Text Phras</b>	es:	
Acute Tox. 4 (Oral):	Acute toxicity (oral) Category 4	
Carc. 1B:	Carcinogenicity Category 1B	
Comb. Dust:	Combustible Dust	
Comb. Dust:	May form combustible dust concentrations in air	
H302:	Harmful if swallowed	
H350:	May cause cancer	
The information contained herein is accurate to the best of our Knowledge. My company makes no		
warranty of any kind	l, express or implied, concerning the safe use of this material, in your process or in	
combination with ot	her substances.	