

Revision: 11/28/2018 Supersedes Revision: 01/21/2014

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G Ba G No	HS Hazard Phrases: ased on evaluation of curre								
Ba G i No	ased on evaluation of curre								
G No									
No	HS Precaution Phrases:	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
G	o phrases apply.								
	HS Response Phrases:								
	o phrases apply.								
	HS Storage and Disposal								
	Please refer to Section 7 for Storage and Section 13 for Disposal information.								
	Adverse Human HealthMaterial may be irritating to the mucous membranes and upper respiratory tract.Effects and Symptoms:May be harmful by inhalation, ingestion, or skin absorption.								
Effe	, ,	ay be narmiul by innalation, ay cause eye, skin, or respi	-	-					
					been thoroughly investigated.				
		n 3. Composition							
CAS #/	1	ents (Chemical Name)/	Concentration	EC No./	GHS Classification				
RTECS #	REACH Registration			EC Index No.					
16980-89- ES5055500	, ,	lt)	100.0 %	241-059-4 NA	No GHS classifications apply.				

Multi-region format



Revision: 11/28/2018 Supersedes Revision: 01/21/2014

		Section 4. First Aid Measures				
4.1	Description of First Aid					
	Measures:					
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.				
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.				
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.				
		Section 5. Fire Fighting Measures				
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				
	Media:	Use water spray to cool fire-exposed containers.				
	Unsuitable Extinguishing Media:	a A solid water stream may be inefficient.				
5.2	Flammable Properties andNo data available. Hazards:					
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.				
		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.				
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.				
	Containment and Cleanir Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.				
		Section 7. Handling and Storage				
 7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.				
/	in Handling:	Avoid prolonged or repeated exposure.				
7.2	-	Neep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Sec	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					

Multi-region format



	HEMICAL	Supersedes Revision: 01/21/2014
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:	
	-	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	Do not take internally.
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower
		Wash thoroughly after handling.
		No data available.
	C_	
		ection 9. Physical and Chemical Properties
9.1	-	ical and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	A crystalline solid
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air or	mm No data.
	Hg):	
	Vapor Density (vs. Air = 1)	: No data.
	Specific Gravity (Water = 1	I): No data.
	Solubility in Water:	No data.
	Solubility Notes:	~3.3 mg/ml in PBS (pH 7.2); ~1 mg/ml in EtOH; ~3.3 mg/ml in DMSO; ~5 mg/ml in DMF;
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	No data.
	Decomposition Temperatu	ire: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
	Molecular Formula & Weig	ht: C18H23N5O8P • Na 491.4

Multi-region format



Revision: 11/28/2018 Supersedes Revision: 01/21/2014

	Note(s):	Section 10. Stability and No data available. Unstable [] Stable [X] Stable if stored in accordance with information with occur [] Will occur [] Will not occur [X] No data available.		•						
Stability: Stability Polymeri Conditio ncompa	Note(s): zation: ns To Avoid:	Unstable [] Stable [X] Stable if stored in accordance with informa Will occur [] Will not occur [X]	tion listed on	the product						
Stability Polymeri Conditio ncompa	Note(s): ization: ns To Avoid:	Stable if stored in accordance with informa Will occur [] Will not occur [X]	tion listed on	the product						
Polymeri Conditio ncompa	zation: ns To Avoid:	Will occur [] Will not occur [X]	tion listed on	the product						
Conditio ncompa	ns To Avoid:				Stable if stored in accordance with information listed on the product insert.					
ncompa		No data available.		Will occur [] Will not occur [X]						
-	tibility - Materials									
Γο Avoid		No data available.								
	l:									
Hazardous		No data available.								
Decompo	osition or									
Byprodu	cts:									
		Section 11. Toxicological	Informat	tion						
nformati	ion on	The toxicological effects of this product have not been thoroughly studied.								
ΓοχίςοΙο	gical Effects:	Bucladesine (sodium salt) - Toxicity Data: Oral LD50 (rat): >5 g/kg; Intraperitoneal LD50 (rat): 51								
		mg/kg; Oral LD50 (mouse): >5 g/kg; Skin LD50 (rabbit): >2 g/kg; Subcutaneous LD50 (rat): 487								
						678 mg/kg;				
Chronic	Toxicological	Bucladesine (sodium salt) - Investigated as a drug and reproductive effector.								
Effects:				ances (RTE	CS) data is pre	sented here.				
		· · ·	r: ES505550	0		-				
	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA				
-89-5	Bucladesine (sod	ium salt)	n.a.	n.a.	n.a.	n.a.				
		Section 12. Ecological Ir	nformatio	on						
Foxicity:		Avoid release into the environment.								
		Runoff from fire control or dilution water ma	ay cause pol	lution.						
Persister	nce and	No data available.								
Degrada	bility:									
Bioaccur	nulative	No data available.								
Potential	:									
Nobility	in Soil:	No data available.								
5 Results of PBT and vPvB No data available.										
assessment:										
Other ad	verse effects:	No data available.								
		Section 13. Disposal Con	sideratio	ons						
Naste Di	sposal Method:	Dispose in accordance with local, state, an	d federal reg	gulations.						
	yprodu formation oxicolo hronic ffects: 89-5 oxicity: ersister egradal ioaccur otential lobility esults of ssessmither ad	yproducts: formation on oxicological Effects: hronic Toxicological ffects: Hazardous Com 89-5 Bucladesine (sod oxicity: ersistence and egradability: ioaccumulative otential: lobility in Soil: esults of PBT and vPvB ssessment: ther adverse effects:	yproducts: Section 11. Toxicological formation on oxicological Effects: bucladesine (sodium salt) - Toxicity Data: mg/kg; Oral LD50 (mouse): >5 g/kg; Skin mg/kg; Intraperitoneal LD50 (mouse): 1024 thronic Toxicological Bucladesine (sodium salt) - Investigated as ffects: Only select Registry of Toxic Effects of Ch See actual entry in RTECS for complete in Bucladesine (sodium salt) RTECS Number Hazardous Components (Chemical Name) 89-5 Bucladesine (sodium salt) Mazardous Components (Chemical Name) 89-5 Bucladesine (sodium salt) Coticity: Avoid release into the environment. Runoff from fire control or dilution water material egradability: ioaccumulative No data available. esults of PBT and vPvB No data available. ssessment: ther adverse effects: No data available. Section 13. Disposal Con	yproducts: Section 11. Toxicological Information on oxicological Effects: formation on oxicological Effects: The toxicological effects of this product have not been in Bucladesine (sodium salt) - Toxicity Data: Oral LD50 (rn g/kg; Oral LD50 (mouse): >5 g/kg; Skin LD50 (rabbit mg/kg; Oral LD50 (mouse): >5 g/kg; Skin LD50 (rabbit mg/kg; Intraperitoneal LD50 (mouse): 1024 mg/kg; Sub thronic Toxicological hronic Toxicological Bucladesine (sodium salt) - Investigated as a drug and Gnly select Registry of Toxic Effects of Chemical Subst See actual entry in RTECS for complete information. Bucladesine (sodium salt) RTECS Number: ES505500 Hazardous Components (Chemical Name) NTP 89-5 Bucladesine (sodium salt) n.a. Section 12. Ecological Information on dilution water may cause pole oxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pole ersistence and No data available. ersistence and No data available. essuts of PBT and vPvB No data available. seessment: ther adverse effects: No data available. Section 13. Disposal Consideration	spectron 11. Toxicological Information Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly st bioxicological Effects: Bucladesine (sodium salt) - Toxicity Data: Oral LD50 (rat): >5 g/kg; mg/kg; Oral LD50 (mouse): >5 g/kg; Skin LD50 (rabbit): >2 g/kg; Skin mg/kg; Intraperitoneal LD50 (mouse): 1024 mg/kg; Subcutaneous L hronic Toxicological Bucladesine (sodium salt) - Investigated as a drug and reproductive Only select Registry of Toxic Effects of Chemical Substances (RTEC See actual entry in RTECS for complete information. Bucladesine (sodium salt) RTECS Number: ES5055500 Marc Bucladesine (sodium salt) RTECS Number: ES5055500 Marc Bucladesine (sodium salt) n.a. n.a. NTP IARC Bucladesine (sodium salt) NTP IARC Bucladesine (sodium salt) n.a. n.a. Section 12. Ecological Information Bucladesine (sodium salt) No No Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. ersistence and soaccumulative No data available. Bucladesine (Sodium salt) N data avai	yproducts: Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. oxicological Effects: Bucladesine (sodium salt) - Toxicity Data: Oral LD50 (rat): >5 g/kg; Intraperitoneal LD50 (mouse): >5 g/kg; Skin LD50 (rabbit): >2 g/kg; Subcutaneous LD mg/kg; Oral LD50 (mouse): 1024 mg/kg; Subcutaneous LD50 (mouse): 1024 mg/kg; Subcutaneou				



Revision: 11/28/2018 Supersedes Revision: 01/21/2014

CAS #Hazardous Cor16980-89-5Bucladesine (scCAS #Hazardous Cor16980-89-5Bucladesine (scRegulatory InformationStatement:Revision Date:	ne: Not dangerous goods. uropean ADR/RID): Not dangerous goods. D/IATA): Not dangerous goods. D/IATA): Transport in accordance with Section 15. Regulation Accordance with Section 15. Regulation Accordance with Imponents (Chemical Name) Odium salt) Odium salt) Odium salt)	local, state, and fede ulatory Inform t of 1986) Lists S. 302 (EHS) No Other US EPA o	eral regulations. nation S. 304 RQ No	S. 313 (TRI)		
DOT Proper Shipping Name DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (Eu ADR/RID Shipping Name: UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAC ICAO/IATA Shipping Name Additional Transport Information: EPA SARA (Superfund Amend CAS # Hazardous Cor 16980-89-5 Bucladesine (so CAS # Hazardous Cor 16980-89-5 Bucladesine (so Regulatory Information Statement:	ne: Not dangerous goods. uropean ADR/RID): Not dangerous goods. D/IATA): Not dangerous goods. D/IATA): Transport in accordance with Section 15. Regulation Accordance with Section 15. Regulation Accordance with Imponents (Chemical Name) Odium salt) Odium salt) Odium salt)	ulatory Inform t of 1986) Lists S. 302 (EHS) No Other US EPA o	S. 304 RQ No			
DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (Eu ADR/RID Shipping Name: UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAC ICAO/IATA Shipping Name Additional Transport Information: EPA SARA (Superfund Amend CAS # Hazardous Cor 16980-89-5 Bucladesine (sc CAS # Hazardous Cor 16980-89-5 Bucladesine (sc Regulatory Information Statement:	uropean ADR/RID): Not dangerous goods. D/IATA): e: Not dangerous goods. Transport in accordance with Section 15. Regu dments and Reauthorization Accomponents (Chemical Name) odium salt) odium salt)	ulatory Inform t of 1986) Lists S. 302 (EHS) No Other US EPA o	S. 304 RQ No			
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UN Number: Hazard Class: 14.3 AIR TRANSPORT (ICAC ICAO/IATA Shipping Name Additional Transport Information: EPA SARA (Superfund Amend CAS # Hazardous Cor 16980-89-5 Bucladesine (sc CAS # Hazardous Cor 16980-89-5 Bucladesine (sc Regulatory Information Statement:	D/IATA): P: Not dangerous goods. Transport in accordance with Section 15. Regu dments and Reauthorization Accomponents (Chemical Name) odium salt) pmponents (Chemical Name) odium salt)	ulatory Inform t of 1986) Lists S. 302 (EHS) No Other US EPA o	S. 304 RQ No			
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CAS # Hazardous Cor 16980-89-5 Bucladesine (so Regulatory Information Statement: Revision Date:	omponents (Chemical Name) odium salt)	Other US EPA o	-	No		
16980-89-5 Bucladesine (sc Regulatory Information Statement:	odium salt)					
Regulatory Information Statement: Revision Date:	·	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA				
Statement: Revision Date:	This SDS was prepared in acc	PROP.65: No				
	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
	Section 16. Of	ther Informati	on			
	11/28/2018					
Additional Information About This Product:	No data available.					
Company Policy or Disclaimer:	: DISCLAIMER: This information currently available to us. Howe express or implied, with respe- use. Users should make their their particular purposes.	ever, we make no wa ct to such information	arranty of merchant	ability or any other warrant no liability resulting from its		