

SAFETY DATA SHEET .beta.-Gal-NONOate

Revision: 04/15/2019 Supersedes Revision: 02/05/2015

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		accordir	ng to Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8	30 and US OSHA HCS	2015		
		Section 1.	Identification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking		
1.1	Product Code: 10009137							
Product Name: .betaGal-NONOate								
Synonyms: 1-O-(1-pyrrolidinyl-ONN-azoxy)betaD-glucopyranose;								
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses: For research use only, not for human or veterinary use.							
1.3	Details of	of the Supplier of t	the Safety Data Sheet:					
	Compa	any Name:	Cayman Chemical Comp	any				
			1180 E. Ellsworth Rd.					
			Ann Arbor, MI 48108					
		ite address:	www.caymanchem.com					
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335		
1.4	-	ncy telephone nur						
	Emerg	ency Contact:	CHEMTREC Within USA			0)424-9300		
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887		
			Section 2. Haz	zards Identific	ation			
2.1	Classifie	cation of the Subs	tance or Mixture:					
2.2	Label El	ements:						
	GHS S	ignal Word:	None					
	GHS H	lazard Phrases:						
	Based	on evaluation of cu	urrently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.		
	GHS F	Precaution Phrase	S:					
	No phi	ases apply.						
		Response Phrases	:					
		ases apply.						
	•	Storage and Dispo	sal Phrases:					
		•	for Storage and Section 13 for	Disposal information	۱.			
2.3		e Human Health	Material may be irritating to the	•		piratory tract.		
Effects and Symptoms: May be harmful by inhalation,								
			May cause eye, skin, or resp	iratory system irritation	on.			
	To the best of our knowledge, the toxicological properties have not been thoroughly investigated							
		Sect	ion 3. Composition	/Information of	on Ingredie	nts		
CAS	#/	Hazardous Comp	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTECS # REACH Registration No.		tion No.		EC Index No.				
357192-77-9 .betaGal-NONOate		100.0 %	NA	No data available.				
NA								

Multi-region format



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		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	g A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an	IdNo 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	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		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	Precautions To Be Taken	N Keep 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:	

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8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equipr	ment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	atory Equipment NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safet					
	\$	shower.					
		Wash thoroughly after handling.					
	I	No data available.					
	Se	ction 9. Physical and Chemical Properties					
ə.1		cal 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): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~2 mg/ml in PBS (pH 7.2); ~3 mg/ml in EtOH; ~10 mg/ml in DMSO & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						

293.3

9.2

Autoignition Pt:

Other Information Percent Volatile:

Viscosity:

Decomposition Temperature:

Molecular Formula & Weight:

No data.

No data. No data.

No data. C10H19N3O7



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			Section 10. Stability a	Ind Reactiv	vity			
10.1	Reactivit	t y :	No data available.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.					
	Polymerization:		Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	0.5 Incompatibility - Materials No data available.							
	To Avoid							
10.6	Hazardo		No data available.					
		osition or						
	Byprodu	cts:						
			Section 11. Toxicologi	cal Informa	ation			
11.1	Informat		The toxicological effects of this produ	ct have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
35719	92-77-9	.betaGal-NONO	Date	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologica		ion			
12.1	Toxicity		Section 12. Ecologica Avoid release into the environment.		ion	ł		
12.1	Toxicity			al Informat				
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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Information:

Additional Transport

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
357192-77-9	.betaGal-NONC	Date	No	No	No		
CAS # Hazardous Com		ponents (Chemical Name) Other US EPA or State Lists		•			
357192-77-9	.betaGal-NONOate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	ner Information	n			
Revision Date:		04/15/2019					
Additional Information About		No data available.					
This Product:							
Company Polic	y or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.					