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2-sulfamino-2-deoxy-.alpha.-D-Glucopyranoside

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 24931 **Product Name:** 4-Methylumbelliferyl 2-sulfamino-2-deoxy-.alpha.-D-Glucopyranoside (sodium salt) Synonyms: 7-[[2-deoxy-2-(sulfoamino)-.alpha.-D-glucopyranosyl]oxy]-4-methyl-2H-1-benzopyran-2-one, monosodium salt; 4-MU-.alpha.-GlcNS; 1.2 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 the Supplier of the Safety Data Sheet: **Company Name:** Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (734)971-3335 1.4 **Emergency telephone number: Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** 2.2 Label Elements: **GHS Signal Word:** None **GHS Hazard Phrases:** Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. **GHS Precaution Phrases:** No phrases apply. **GHS Response Phrases:** No phrases apply. **GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Material may be irritating to the mucous membranes and upper respiratory tract. **Adverse Human Health** May be harmful by inhalation, ingestion, or skin absorption. Effects and Symptoms: May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Section 3. Composition/Information on Ingredients EC No./ CAS #/ Hazardous Components (Chemical Name)/ Concentration GHS Classification **RTECS # REACH Registration No.** EC Index No. 460085-45-4 4-Methylumbelliferyl 100.0 % NA No data available. NA 2-sulfamino-2-deoxy-.alpha.-D-Glucopyranoside NA (sodium salt)

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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 Media:	A solid water stream may be inefficient.
5.2	Flammable Properties an	dNo 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	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.
		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		r Contain spill and collect, as appropriate.
0.5		ng Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
	•	Section 7. Handling and Storage
 7.1	Processions To Bo Takon	Avoid breathing dust/fume/gas/mist/vapours/spray.
1.1	in Handling:	Avoid prolonged or repeated exposure.
7.2	-	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	-	tion 8 Exposure Controls/Personal Protection
L		tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



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Exposure Controls: 8.2 8.2.1 **Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. (Ventilation etc.): 8.2.2 Personal protection equipment: Eye Protection: Safety glasses **Protective Gloves:** Compatible chemical-resistant gloves Other Protective Clothing: Lab coat **Respiratory Equipment** 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. ce Practices: Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties 9.1 Information on Basic Physical and Chemical Properties [] Liquid [X] Solid **Physical States:** []Gas A solid Appearance and Odor: No data. pH: No data. **Melting Point: Boiling Point:** No data. Flash Pt: No data. **Evaporation Rate:** No data. Flammability (solid, gas): No data available. LEL: No data. UEL: No data. **Explosive Limits:** Vapor Pressure (vs. Air or mm No data. Hg): Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. No data. Solubility in Water: Soluble (slightly) in: DMSO; water; **Solubility Notes: Octanol/Water Partition** No data. **Coefficient:** No data. **Autoignition Pt: Decomposition Temperature:** No data. No data. Viscosity: 9.2 **Other Information** Percent Volatile: No data. Molecular Formula & Weight: C16H18NO10S • Na 439.4

Multi-region format



SAFETY DATA SHEET 4-Methylumbelliferyl 2-sulfamino-2-deoxy-.alpha.-D-Glucopyranoside

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			Section 10. Stability and	l Reactiv	vity					
10.1	Reactivi	ty:	No data available.							
10.2	Stability	:	Unstable [] Stable [X]							
10.3	Stability	Note(s):	Stable if stored in accordance with inform	ation listed o	on the product	insert.				
	Polymer	ization:	Will occur [] Will not occur [X]							
10.4	Conditio	ons To Avoid:	No data available.							
10.5	Incompa	tibility - Materials	s strong oxidizing agents							
	To Avoid	d:								
10.6	Hazardo	us	carbon dioxide							
	Decomp	osition or	carbon monoxide							
	Byprodu	icts:	hydrogen sulfide							
			nitrogen oxides							
			Section 11. Toxicological	Informa	ation					
11.1	Informat	ion on	The toxicological effects of this product ha	ave not beer	n thoroughly st	tudied.				
	Toxicolo	gical Effects:								
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA			
4600	85-45-4	4-Methylumbellife	eryl	n.a.	n.a.	n.a.	n.a.			
		2-sulfamino-2-de	oxyalphaD-Glucopyranoside (sodium							
		salt)								
			Section 12. Ecological I	nformat	ion					
12.1	2.1 Toxicity: Avoid release into the		Avoid release into the environment.							
			Runoff from fire control or dilution water n	nay cause po	ollution.					
12.2	Persiste	nce and	No data available.							
	Degrada	bility:								
12.3	Bioaccu	mulative	No data available.							
	Potentia	l:								
12.4	Mobility	in Soil:	No data available.							
12.5	Results	of PBT and vPvB	No data available.							
	assessm	nent:								
12.6	Other ad	lverse effects:	No data available.							
			Caption 12 Dianagal Car	aidarat	000					
			Section 13. Disposal Cor							
13.1	waste D	isposal Method:	Dispose in accordance with local, state, a		-					
			Section 14. Transport I	nformat	ion					
14.1	LAND T	RANSPORT (US I	DOT):							
D	OT Prope	r Shipping Name:	Not dangerous goods.							
	OT Hazar									
U	N/NA Nun	nber:								
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):							
A	DR/RID SI	hipping Name:	Not dangerous goods.							
U	N Numbe	r:								
н	lazard Cla	SS:								
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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

e: Not dangerous goods.

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

Information:

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
460085-45-4	60085-45-4 4-Methylumbelliferyl 2-sulfamino-2-deoxyalphaD-Glucopyranoside (sodium salt)		No	No	No		
CAS # Hazardous Com		ponents (Chemical Name) Other US EF		PA or State Lists			
460085-45-4	4-Methylumbellife 2-sulfamino-2-de (sodium salt)	eryl oxyalphaD-Glucopyranoside	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Information		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Statement:		No.1272/2008.					
		Section 16. Oth	ner Informatio	on			
Revision Date:		04/02/2018					
Additional Info	rmation About	No data available.					
This Product:							
Company Poli	cy 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.					