

SAFETY DATA SHEET DDG

Revision: 04/29/2018

		accord	ling to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8		
		Section 1. Ide	entification of the Substar	ce/Mixture and of t	he Company/Ur	ndertaking		
1.1	Produc Produc Synony	t Name:		4778				
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 C 1180 E. Ellsworth R Ann Arbor, MI 4810			any				
		site address:	www.caymanchem.com					
		nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335		
1.4	-	ency telephone numb gency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US		•	0)424-9300 3)527-3887		
			Section 2. Ha	zards Identific	cation			
2.1 2.2		cation of the Substar	nce or Mixture:					
2.3	 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. Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly inversed. 					piratory tract. been thoroughly investigated.		
		Sectio	n) (Composition	/Intormation (on Indrediei			
			n 3. Composition		, in the second second	Its		
CAS RTE	# / CS #	1	nents (Chemical Name)/	Concentration	EC No./ EC Index No.	IIS GHS Classification		

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 Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	I d No data available.
		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 Cleanin	hgTransfer 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 Taker	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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	HEMICAL						
8.2	Exposure Controls:						
8.2.1		e process enclosures, local exhaust ventilation, or other engineering controls to control airborn els below recommended exposure limits.					
8.2.2	Personal protection equipme						
0.2.2		fety glasses					
	-						
		mpatible chemical-resistant gloves					
	Other Protective Clothing:Lab						
		OSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do						
		cilities storing or utilizing this material should be equipped with an eyewash and a safety showe sh thoroughly after handling.					
	INU	data available.					
	Sect	ion 9. Physical and Chemical Properties					
9.1	Information on Basic Physical	and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A powder					
	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 mn	n No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	~ 27 mM					
	Solubility Notes:	Soluble in: MeOH; DMSO;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature:	No data.					
	Viscosity:	No data.					
	Other Information						
9.2	Other Information						
9.2	Percent Volatile:	No data.					



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10.1	Reactivi	ty:	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.					
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	0.4 Conditions To Avoid:		No data available.					
10.5 Incompatibility - Materials			No data available.					
To Avoid:								
10.6	Hazardous		No data available.					
	-	osition or						
	Byprodu	icts:						
			Section 11. Toxicolog	cal Informa	ation			
11.1	Informat	tion on	The toxicological effects of this prod	ct have not beer	n thoroughly st	udied.		
	Toxicolo	ogical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
			,					
	NA	DDG		n.a.	n.a.	n.a.	n.a.	
	NA	DDG		n.a.		n.a.	n.a.	
12 1		1	Section 12. Ecologic	n.a.		n.a.	n.a.	
12.1	NA Toxicity	1	Section 12. Ecologic Avoid release into the environment.	n.a. al Informat	ion	n.a.	n.a.	
	Toxicity	:	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa	n.a. al Informat	ion	n.a.	n.a.	
12.1	Toxicity Persiste	: nce and	Section 12. Ecologic Avoid release into the environment.	n.a. al Informat	ion	n.a.	n.a.	
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12.2	Toxicity Persiste Degrada	: nce and Ibility: mulative	Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available.	n.a. al Informat	ion	n.a.	n.a.	
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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

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)	
NA	DDG		No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
NA	DDG	DDG		No; CWA NPDES:	No; TSCA: No; CA	
Regulatory Ir Statement:	formation	This SDS was prepared in acc No.1272/2008.	cordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Information	on		
Revision Date	e:	04/29/2018				
Additional In	formation About	No data available.				
This Product	:					
This Product: Company Policy 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.				