

Revision: 07/15/2018

		cording to Regulation (EC) No. 1907/2006 as amended by (E	• • • • • • •			
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking			
1	Product Code:	25545				
	Product Name:	Acridine Orange 10-nonyl (bromide)				
	Synonyms:	3,6-bis(dimethylamino)-10-nonyl-acridinium, mo	nobromide; 10-nonyl Acridine Orange;			
	Relevant identified uses	of the substance or mixture and uses advised again	inst:			
	Relevant identified uses: For research use only, not for human or veterinary use.					
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	Emergency telephone nu					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identifica	tion			
	Classification of the Subs	stance or Mixture:				
	Skin Corrosion/Irritatio	n Category 2				
	Serious Eye Damage/E	ye initiation, Category 2				
2	Specific Target Organ 1 Label Elements:	Foxicity (single exposure), Category 3				
2	Label Elements:					
2	Label Elements:	Гoxicity (single exposure), Category 3 Warning				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	Warning				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat	Warning ion.				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey	Warning ion. /e irritation.				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira	Warning ion. /e irritation. atory irritation.				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase	Warning ion. /e irritation. atory irritation.				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respirat GHS Precaution Phrase P261: Avoid breathing {d	Warning ion. /e irritation. atory irritation. es: lust/fume/gas/mist/vapors/spray}.				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respirat GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thom	Warning ion. /e irritation. atory irritation. es: lust/fume/gas/mist/vapors/spray}. roughly after handling.				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respirat GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thom P280: Wear {protective g	Warning ion. /e irritation. // irritation. // irritation. /es: // ust/fume/gas/mist/vapors/spray}. roughly after handling. // oves/protective clothing/eye protection/face protectio	n}.			
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2	Label Elements: GHS Signal Word: GHS Nazard Phrases: H315: Causes skin irritat H315: Causes serious ey H335: May cause respirat GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thom P280: Wear {protective g GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED:	Warning ion. //e irritation. atory irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. loves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a positi	on comfortable for breathing.			
2	Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EY	Warning ion. /e irritation. htory irritation. es: ust/fume/gas/mist/vapors/spray}. roughly after handling. loves/protective clothing/eye protection/face protectio s: Wash with plenty of soap and water.	on comfortable for breathing.			
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2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {d P264: Wash {hands} thou P280: Wear {protective g GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EY to do. Continue rinsing. P312: Call a POISON CE P332+313: If skin irritatio P337+313: If eye irritatio	Warning ion. //e irritation. //e irritation. //es: //es: //es: //es: //es: //es: //es: //es/protective clothing/eye protection/face protection //face protec	on comfortable for breathing.			

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2.3		e Human Health	Causes serious eye irritation					
	Effects	and Symptoms:	Causes skin irritation.					
			Material may be irritating to t May be harmful by inhalatior			spiratory tract.		
			May cause respiratory system	-	absorption.			
					properties have no	t been thoroughly investigated.		
		Sect	tion 3. Composition		-			
CAS	#/	I	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE		REACH Registra		Concentration	EC Index No.			
7516	68-11-5	Acridinium, 3,6-bis(c	dimethylamino)-10-nonyl-,	100.0 %	636-051-6	Skin Corr. 2: H315		
NA		bromide (1:1)			NA	Eye Damage 2A: H319		
						STOT (SE) 3: H335		
		-	Section 4. Fi	rst Aid Meas	sures			
4.1	-	otion of First Aid						
	Measur		Domovo to freeh oir lf not hr	acthing give artifici	ial reasization or gi	ve overgen by trained nergennel		
	In Case	e of Inhalation:	Get immediate medical atten		ial respiration or gi	ve oxygen by trained personnel.		
	In Case	of Skin Contact:			water for at least 1	5 minutes. Remove contaminated		
			clothing. Get medical attentio					
	In Case	e 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.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					
	In Case	e of Ingestion:						
		-						
			medical personnel.					
			Section 5. Fire	Fighting Me	easures			
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, o	carbon dioxide, wat	er, or dry chemica	l spray.		
	Media:		Use water spray to cool fire-exposed containers.					
		able Extinguishing	g A solid water stream may be inefficient.					
5.0	Media:		. INIs data available					
5.2	Hazard	-	dNo data available.					
	nazaru	5.	No data available.					
	Flash F	3 4.	No data.					
		ive Limits:	LEL: No data.	UEL: No o	data			
	•			UEL. NO	Jala.			
	-	nition Pt:	No data.		4			
5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pre equivalent), and full protective gear to prevent contact with								
			equivalent), and full protectiv	e gear to prevent o	contact with skin ar	iu eyes.		



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		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.					
	Protective Equipment and	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	Take steps to avoid release into the environment, if safe to do so.					
	Precautions:						
6.3	Methods and Material For	Methods and Material For Contain spill and collect, as appropriate.					
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:						
		Section 7. Handling and Storage					
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.					
7.2	Precautions To Be Taken	Keep container tightly closed.					
	in Storing:	Store in accordance with information listed on the product insert.					
	Secti	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
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:Lab coat						
	Respiratory 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 and a safety shower.					
		Wash thoroughly after handling.					
		No data available.					
	Se	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	cal and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A 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.					
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		A 1. A 1.	A						
	-	Gravity (Water =	-						
		in Water:		No data.					
	Solubility		Soluble in: EtOH; DMS	Soluble in: EtOH; DMSO; DMF;					
	Octanol/	Nater Partition	No data.						
	Coefficie	nt:							
	Autoignit	tion Pt:	No data.						
	Decompo	osition Temperat	ure: No data.						
	Viscosity	' :	No data.						
9.2	Other Info	ormation							
	Percent \	/olatile:	No data.						
	Molecula	r Formula & Weig	ght: C26H38N3• Br 47	72.5					
			Section 10. Stab	ility and	Reacti	vitv			
10.1	Reactivit	y:	No data available.						
10.2	Stability:		Unstable [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance	with informa	tion listed of	on the product	insert.		
	Polymeri	zation:	Will occur [] Will not occ	cur [X]					
10.4	-	ns To Avoid:	No data available.						
10.5			strong oxidizing agents						
	To Avoid	-	strong oxidizing agents						
10.6	Hazardou		carbon dioxide						
10.0									
Decomposition or carbon monoxide									
Byproducts: hydrogen bromide gas nitrogen oxides									
			Section 11. Toxic	ological	Informa	ation			
11.1	Informati	on on	The toxicological effects of this				udied		
		gical Effects:		S product na		T thoroughly St			
CAS		-	ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA	
<u> </u>				omide (1·1)	n.a.	n.a.	n.a.	n.a.	
7510	00-11-0	Achaman, 3,0-bi	s(dimethylamino)-10-nonyl-, br				11.a.	11.a.	
			Section 12. Ecol	-	format	ion			
12.1	Toxicity:		Avoid release into the environ						
	Runoff from fire control or dilution water			tion water ma	ay cause p	ollution.			
12.2	Persister	nce and	No data available.						
	Degradal	oility:							
12.3	Bioaccur	nulative	No data available.						
	Potential	:							
12.4	Mobility i	in Soil:	No data available.						
12.5	Results o	of PBT and vPvB	No data available.						
	assessm	ent:							
12.6	2.6 Other adverse effects: No		No data available.						
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		Section 13. Dispos	sal Considera	itions				
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
Section 14. Transport Information								
14.1 LAND T	RANSPORT (US	DOT):						
DOT Prope DOT Hazar	er Shipping Name d Class:	Not dangerous goods.						
UN/NA Nur	nber:							
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):						
	hipping Name:	Not dangerous goods.						
UN Numbe								
Hazard Cla								
	ANSPORT (ICAO/	-						
	Shipping Name:	Not dangerous goods.						
Additional Trai	nsport	Transport in accordance with lo	ocal, state, and feder	al regulations.				
			l = (=	. ()				
		Section 15. Regu	-	ation				
	+	nents and Reauthorization Act	I					
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
75168-11-5	bromide (1:1)	is(dimethylamino)-10-nonyl-,	No	No	No			
CAS #		ponents (Chemical Name)	ame) Other US EPA or State Lists					
75168-11-5	Acridinium, 3,6-b bromide (1:1)	is(dimethylamino)-10-nonyl-,	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info Statement:	ormation	This SDS was prepared in acco No.1272/2008.	ordance with 29 CFR	1910.1200 and R	egulation (EC)			
		Section 16. Oth	ner Informatio	n				
Revision Date:		07/15/2018						
Additional Information About		No data available.						
This Product:								
Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information					ents the best information			
		currently available to us. However		•				
		express or implied, with respect						
		use. Users should make their own investigations to determine the suitability of the information for their particular purposes.						