

		ling to Regulation (EC) No. 1907/2006 as amended by					
	Section 1. Ide	entification of the Substance/Mixture and of the	ne Company/Undertaking				
1	Product Code:	23124					
	Product Name:	3,3'-Dihexyloxacarbocyanine (iodide)					
	Synonyms:	3-hexyl-2-[3-(3-hexyl-2(3H)-benzoxazolylidene	e)-1-propen-1-yl]-benzoxazolium, iodide;				
		DiOC6(3); D 273; NK 2280;					
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.						
.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				
.4	Emergency telephone numb						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
1	Classification of the Substar	ace or Mixture:					
-							
	Skin Corrosion/Irritation, Category 2						
	Skin Corrosion/Irritation, C	Category 2					
	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I						
	Serious Eye Damage/Eye I						
.2	Serious Eye Damage/Eye I	rritation, Category 2					
.2	Serious Eye Damage/Eye I Specific Target Organ Tox	rritation, Category 2					
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2	Serious Eye Damage/Eye I Specific Target Organ Tox	rritation, Category 2					
2	Serious Eye Damage/Eye I Specific Target Organ Tox	rritation, Category 2 icity (single exposure), Category 3					
2	Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	rritation, Category 2					
2	Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word:	rritation, Category 2 icity (single exposure), Category 3 Warning					
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2	Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir	rritation, Category 2 icity (single exposure), Category 3 Warning					
2	Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory GHS Precaution Phrases:	rritation, Category 2 icity (single exposure), Category 3 Warning					
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2.3		e Human Health and Symptoms:	May be harmful by inhalation May cause respiratory syste	the mucous membranes and upper respiratory tract. n, ingestion, or skin absorption.				
		Sect	tion 3. Composition	h/Information	on Ingredie	ents		
CAS RTEC		Hazardous Comp REACH Registrat	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
53213-82-4 Benzoxazolium, NA 3-hexyl-2-[3-(3-hex openyl]-, iodide		3-hexyl-2-[3-(3-hexy	I-2(3H)-benzoxazolylidene)-1-pr	100.0 %	NA NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336		
			Section 4. Fi	rst Aid Meas	sures	•		
4.1	Measu	ption of First Aid res: e of Inhalation:	Remove to fresh air. If not br Get immediate medical atten		al respiration or gi	ve oxygen by trained personnel.		
		e of Skin Contact: e of Eye 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. 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	e of Ingestion:	Wash out mouth with water p	provided person is c	-	ive anything by mouth to an ng unless directed to do so by		
			Section 5. Fire	Fighting Me	asures			
5.1		le Extinguishing	Use alcohol-resistant foam,		•	l spray.		
	Media: Unsuit Media:	able Extinguishing	Use water spray to cool fire- A solid water stream may be	·	i.			
5.2		able Properties an	d No data available.					
			No data available.					
	Flash F	Pt:	No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No o	data.			
5.3	-	nition Pt: ghting Instructions	No data. As in any fire, wear self-cont equivalent), and full protective	• • • •	•			



		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	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.				
	Sect	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 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.				
	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 Phys	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.				
		Multi-region forma				



	Specific	Gravity (Water =	1):	No data.						
	Solubility	in Water:		No data.						
	Solubility	Notes:		~30 mg/ml in EtOH, DMSO, & DM	/IF;					
	-	Nater Partition		No data.						
	Coefficie									
	Autoignit	ion Pt [.]		No data.						
	-	osition Temperat		No data.						
	Viscosity	-	ure.	No data.						
	-			No data.						
9.2	Other Info									
	Percent \		• .	No data.						
	Molecula	r Formula & Weig	ght:	C29H37N2O2 • I 572.5						
			S	ection 10. Stability and	d Reacti	ivity				
10.1	Reactivit	y:	No data	a available.						
10.2	Stability:		Unstab	le [] Stable [X]						
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.							
	Polymeri	zation:	Will oc	cur [] Will not occur [X]						
10.4	Conditio	ns To Avoid:	Protect	t from light.						
10.5	Incompat	ibility - Materials		-						
	To Avoid	-	J							
10.6	Hazardou		carbon	dioxide						
	Decompo	_		monoxide						
	=			rogen iodide						
				ogen oxides						
			<u>So</u>	ction 11. Toxicologica	Inform	ation				
11.1	Informati		I he to	kicological effects of this product h	ave not bee	n thoroughly st	udied.			
		gical Effects:								
CAS	#	Hazardous Com	ponents	s (Chemical Name)	NTP	IARC	ACGIH	OSHA		
532		Benzoxazolium, 3-hexyl-2-[3-(3-he , iodide	exyl-2(3ł	H)-benzoxazolylidene)-1-propenyl]	n.a. -	n.a.	n.a.	n.a.		
	Į		S	ection 12. Ecological	Informat	tion	ļ	 		
12.1	Taviaitu			v	monna					
12.1				Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.						
40.0	Densister				nay cause p					
12.2	Persister		NO data	a available.						
	Degradal	-								
12.3	Bioaccur		No data	a available.						
	Potential									
12.4	Mobility i	n Soil:	No data	a available.						
12.5	Results o	of PBT and vPvB	No dat	a available.						
	assessm	ent:								
12.6	Other adv	verse effects:	No dat	a available.						
1										



Multi-region format

		Section 13. Dispos	al Considerat	lons		
13.1 Waste						
		Section 14. Trans	sport Informat	tion		
14.1 LAND	TRANSPORT (US	DOT):				
-	er Shipping Name	Not dangerous goods.				
DOT Haza UN/NA Nu						
	mber: TRANSPORT (Eur					
	Shipping Name:	Not dangerous goods.				
UN Numb						
Hazard CI	ass:					
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
	A Shipping Name:	v v				
Additional Tra	ansport	Transport in accordance with loo	cal, state, and federa	l regulations.		
Information:		• · · · • •				
		Section 15. Regul	atory Informa	tion		
	-	nents and Reauthorization Act o	-			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
53213-82-4	Benzoxazolium, 3-hexyl-2-[3-(3-h propenyl]-, iodide	exyl-2(3H)-benzoxazolylidene)-1- e	No	No	Νο	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists	·	
53213-82-4	Benzoxazolium, 3-hexyl-2-[3-(3-h propenyl]-, iodide	exyl-2(3H)-benzoxazolylidene)-1- exyl-2(3H)-benzoxazolylidene)-1-				
		This CDC was arona and in a sec	rdance with 29 CFR	1910.1200 and R	egulation (EC)	
Regulatory Inf Statement:	ormation	No.1272/2008.				
	ormation		er Informatio	n		
		No.1272/2008.	er Informatio	n		
Statement: Revision Date		No.1272/2008.	er Information	n		