

Revision: 04/09/2018

1		antification of the Substance/Muvture and of the	o Company/I Indortaking
.1		entification of the Substance/Mixture and of the	company/ondenaking
	Product Code:	400201	
	Product Name:	Staining Stock Solution (1,000x)	
.2	Relevant identified uses of t	he substance or mixture and uses advised aga	
	Relevant identified uses:	For research use only, not for human or vetering	ary use.
.3	Details of the Supplier of the	e Safety Data Sheet:	
	Company Name:	Cayman Chemical Company	
		1180 E. Ellsworth Rd.	
	Web site address:	Ann Arbor, MI 48108 www.caymanchem.com	
	Information:	Cayman Chemical Company	+1 (734)971-3335
			+1 (734)371-3333
.4	Emergency telephone numb		1 (800) 424 0200
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identifica	ition
2.1	Classification of the Substa	nce or Mixture:	
2.2	Acute Toxicity: Oral, Cate Carcinogenicity, Category Toxic To Reproduction, C Label Elements:	1A	
.2	Carcinogenicity, Category Toxic To Reproduction, C Label Elements:	1A ategory 1A	
2.2	Carcinogenicity, Category Toxic To Reproduction, C Label Elements: GHS Signal Word:	1A	
2.2	Carcinogenicity, Category Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases:	r 1A ategory 1A Danger	
.2	Carcinogenicity, Category Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed	r 1A ategory 1A Danger	
2.2	Carcinogenicity, Category Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H350: May cause cancer.	n 1A ategory 1A Danger	
2.2	Carcinogenicity, Category Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H350: May cause cancer. H360: May damage fertility	ategory 1A Danger or the unborn child.	
2.2	Carcinogenicity, Category Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H350: May cause cancer. H360: May damage fertility GHS Precaution Phrases:	TA ategory 1A Danger or the unborn child.	
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Cay	nar		Stanning St	ock Solution	. , ,	Revision: 04/09/2018 Supersedes Revision: 12/18/2017
2.3	Adver	se Human Health	Harmful if swallowed.			
	Effect	s and Symptoms:	Material may be irritating to t	he mucous membra	nes and upper re	spiratory tract.
			May be harmful by inhalatior	n or skin absorption.		
ĺ			May cause cancer.			
			May cause eye, skin, or resp	piratory system irritat	tion.	
			May damage fertility or the u	nborn child.		
			To the best of our knowledge	e, the toxicological p	roperties have no	t been thoroughly investigated.
		Sec	tion 3. Composition	/Information	on Ingredie	nts
CAS # RTECS	•	Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
7240-; AU1579		7-Aminoactinomycir	n D	0.0 -1.0 %	635-285-6 NA	Acute Tox.(O) 1: H300 Carcinogen 1A: H350 Toxic Repro. 1A: H360
NA NA		Phosphate buffered	saline (PBS) tablet	0.0 -1.0 %	NA NA	No data available.
7732- ZC0110		Water		99.0 -100.0 %	231-791-2 NA	No data available.
		•	Section 4. Fi	rst Aid Meas	ures	-

4.1 **Description of First Aid** Measures: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. In Case of Inhalation: 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. Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion: unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Important Symptoms and Use with caution: 7-Aminoactinomycin D has a strong affinity for DNA. 4.2

Effects, Both Acute and

Delayed:

		Section 5.	Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistan	foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to c	ool fire-exposed containers.
	Unsuitable Extinguishir	ng A solid water stream	may be inefficient.
	Media:		
5.2	Flammable Properties a	andNo 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 Instruction	ns: As in any fire, wear s	elf-contained breathing apparatus pressure-demand (NIOSH approved or
		equivalent), and full p	protective gear to prevent contact with skin and eyes.



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		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment and	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	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material For	r Contain spill and collect, as appropriate.
	Containment and Cleanin	${f g}$ 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.
		Keep away from sources of ignition.
		Take precautionary measures against static discharge.
7.2	Precautions To Be Taken	Keep away from heat, sparks, and flame.
	in Storing:	Keep container tightly closed.
		Store in accordance with information listed on the product insert.
	Sect	tion 8. Exposure Controls/Personal Protection
3.1	Exposure Parameters:	
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 equi	pment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing	J:Lab coat
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	(Specify Type):	
	(Specify Type): Work/Hygienic/Maintenar	Do not take internally.
	Work/Hygienic/Maintenan	
	Work/Hygienic/Maintenan	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe
	Work/Hygienic/Maintenan	Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.
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9.1	C.	
9.1	58	ction 9. Physical and Chemical Properties
	Information on Basic Physic	cal and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	Solution
	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 r	mm No data.
	Hg):	
	Vapor Density (vs. Air = 1):	No data.
	Specific Gravity (Water = 1)): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	No data.
	Decomposition Temperatur	re: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
10.1	Reactivity:	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	Conditions To Avoid:	No data available.
10.5	Incompatibility - Materials	strong acids
	To Avoid:	strong bases
	S	strong oxidizing agents
10.6		carbon dioxide
		carbon monoxide nitrogen oxides



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			Sectio	n 11. Toxicolog	gical Informa	ation		
11.1	Informa	ation on	The toxicolog	gical effects of this pro	duct have not beer	n thoroughly s	tudied.	
	Toxicol	logical Effects:						
Carci	nogenici	ty:	NTP? No	IARC Monographs?	No OSHA Re	egulated? No		
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA
724	40-37-1	7-Aminoactinomy	cin D		n.a.	n.a.	n.a.	n.a.
	NA	Phosphate buffer	ed saline (PB	S) tablet	n.a.	n.a.	n.a.	n.a.
773	32-18-5	Water			n.a.	n.a.	n.a.	n.a.
			Secti	on 12. Ecologi	cal Informat	ion		
12.1	Toxicity	y:	Avoid releas	e into the environment				
			Runoff from	fire control or dilution v	vater may cause p	ollution.		
12.2	Persist	ence and	No data avai	lable.				
	Degrad	ability:						
12.3	Bioacc	umulative	No data avai	lable.				
	Potenti	al:						
12.4	Mobility	y in Soil:	No data avai	lable.				
12.5	Results	s of PBT and vPvB	No data ava	ilable.				
	assess	ment:						
12.6	Other a	dverse effects:	No data ava	ilable.				
			Sectio	n 13. Disposal	Considerat	ions		
13.1	Waste	Disposal Method:	Dispose in a	ccordance with local, s	state, and federal re	egulations.		
			Sect	ion 14. Transp	ort Informat	ion		
14.1	LAND	TRANSPORT (US I	DOT):					
c	OT Prop	er Shipping Name:	Toxins,	extracted from living so	ources, solid, n.o.s			
c	OT Haza	rd Class:	6.1	POISON				
ι	JN/NA Nu	mber:	UN3462		Packing Grou	ıp:	II	
			POISON 6					
14.1		TRANSPORT (Euro	opean ADR/R	ID).				
		Shipping Name:	-	extracted from living so	ources solid n.o.s.			
	JN Numbe		3462		Packing Grou		Ш	
F	lazard Cla	ass:	6.1 - PO	ISON	0			
14.3	AIR TR	ANSPORT (ICAO/I	ATA):					
10		A Shipping Name:	Toxins,	extracted from living so	ources, solid, n.o.s			
ι	JN Numbe	er:	3462		Packing Grou	ıp:	II	
F	lazard Cla	ass:	6.1 - PO	ISON	IATA Classific	cation:	6.1	
Addi	tional Tra	ansport	-	accordance with local		-		
Infor	mation:			n quantities of less tha	-	-	-	-
				or E5, this item meets				
			mererore pa	ackaging does not hav	e to be labeled as	Dangerous G	oous/⊏xcepted	Quantity.
							Ν	Iulti-region format



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		Section 15. Regu	latory Informa	ation	
EPA SARA (S	uperfund Amendn	nents and Reauthorization Act	of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7240-37-1	7-Aminoactinomy	rcin D	No	No	No
NA	Phosphate buffer	ed saline (PBS) tablet	No	No	No
7732-18-5	Water		No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
7240-37-1	7-Aminoactinomy	rcin D	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
NA	Phosphate buffer	ed saline (PBS) tablet	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
7732-18-5	Water		CAA HAP,ODC: I Inventory; CA PF	No; CWA NPDES: No ROP.65: No	; TSCA: Yes -
Regulatory Inf Statement:	formation	This SDS was prepared in accord No.1272/2008.	ordance with 29 CFR	1910.1200 and Regu	lation (EC)
		Section 16. Otl	ner Informatio	n	
Revision Date	:	04/09/2018			
Additional Info This Product:	ormation About	No data available.			
Company Poli	cy or Disclaimer:	DISCLAIMER: This information currently available to us. However, express or implied, with respect use. Users should make their of their particular purposes.	ver, we make no war t to such information	ranty of merchantabili and we assume no li	ty or any other warranty, ability resulting from its



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	200	ording to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008
		Identification of the Substance/Mixture and of th	
			le company/ondertaking
1.1	Product Code:	600332	
	Product Name:	Cell-Based Assay Hoechst Dye	
.2	Relevant identified uses o	f the substance or mixture and uses advised aga	ainst:
	Relevant identified uses	For research use only, not for human or vetering	nary use.
1.3	Details of the Supplier of t	he 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 nur	nber:	
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
		Section 2. Hazards Identifica	ation
2.1	Classification of the Subs		
	Skin Corrosion/Irritation		
	Germ Cell Mutagenicity,		
2.2	Label Elements:		
	GHS Signal Word:	Warning	
	GHS Hazard Phrases:	Walling	
	H316: Causes mild skin ir	ritation.	
	H341: Suspected of causi		
	GHS Precaution Phrase		
	P201: Obtain special instr	uctions before use.	
	-		
		all safety precautions have been read and understo	od.
	P280: Wear {protective gl		
	P280: Wear {protective gl GHS Response Phrases	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection	
	GHS Response Phrases	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection	
	GHS Response Phrases P308+313: IF exposed or	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection	
	GHS Response Phrases P308+313: IF exposed or	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection : concerned: Get medical attention/advice. n occurs, get medical advice/attention.	
	GHS Response Phrases P308+313: IF exposed or P332+313: If skin irritation GHS Storage and Dispo	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection : concerned: Get medical attention/advice. n occurs, get medical advice/attention.	on}.
2.3	GHS Response Phrases P308+313: IF exposed or P332+313: If skin irritation GHS Storage and Dispo	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection : concerned: Get medical attention/advice. n occurs, get medical advice/attention. sal Phrases: for Storage and Section 13 for Disposal information. Causes mild skin irritation.	on}.
2.3	GHS Response Phrases P308+313: IF exposed or P332+313: If skin irritation GHS Storage and Dispo Please refer to Section 7 to	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection : concerned: Get medical attention/advice. n occurs, get medical advice/attention. sal Phrases: for Storage and Section 13 for Disposal information. Causes mild skin irritation. Material may be irritating to the mucous membrane	on}. es and upper respiratory tract.
2.3	GHS Response Phrases P308+313: IF exposed or P332+313: If skin irritation GHS Storage and Dispo Please refer to Section 7 the Adverse Human Health	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection : concerned: Get medical attention/advice. n occurs, get medical advice/attention. sal Phrases: for Storage and Section 13 for Disposal information. Causes mild skin irritation. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab	on}. es and upper respiratory tract.
2.3	GHS Response Phrases P308+313: IF exposed or P332+313: If skin irritation GHS Storage and Dispo Please refer to Section 7 the Adverse Human Health	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection : concerned: Get medical attention/advice. n occurs, get medical advice/attention. sal Phrases: for Storage and Section 13 for Disposal information. Causes mild skin irritation. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab May cause eye or respiratory system irritation.	on}. es and upper respiratory tract.
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2.3	GHS Response Phrases P308+313: IF exposed or P332+313: If skin irritation GHS Storage and Dispo Please refer to Section 7 the Adverse Human Health	all safety precautions have been read and understo oves/protective clothing/eye protection/face protection : concerned: Get medical attention/advice. n occurs, get medical advice/attention. sal Phrases: for Storage and Section 13 for Disposal information. Causes mild skin irritation. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab May cause eye or respiratory system irritation.	on}. es and upper respiratory tract. sorption.
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SAFETY DATA SHEET Cell-Based Assay Hoechst Dye

Revision: 04/09/2018 Supersedes Revision: 03/20/2017

		Sect	ion 3. Composition	/Information	on Ingredie	nts
CAS RTEC		Hazardous Comp REACH Registrat	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
2349 DT420	1-52-3)0000	Hoechst 33342		1.124 %	245-691-1 NA	Acute Tox.(O) 4: H302 Skin Corr. 2: H315 STOT (SE) 3: H335 H336 Mutagen 2: H341
7732 ZC011	2-18-5 10000	Water		98.876 %	231-791-2 NA	No data available.
		•	Section 4. Fi	rst Aid Measu	ures	
4.1	Descrip Measur	otion of First Aid es:				
	In Case	of Inhalation:	Remove to fresh air. If not bre personnel. Get immediate me	0.0	l respiration or giv	ve oxygen by trained
	In Case	of Skin Contact:	Immediately wash skin with s contaminated clothing. Get m			
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined
	In Case	of Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by
			Section 5. Fire	Fighting Mea	asures	
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c			spray.
	Media:		Use water spray to cool fire-e	exposed containers.		
	Unsuita Media:	able Extinguishing	A solid water stream may be	inefficient.		
5.2	Flamma Hazarda	-	d Emits toxic fumes under fire of	conditions.		
			No data available.			
	Flash P	't:	No data.			
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ata.	
	Autoigr	nition Pt:	No data.			
5.3	Fire Fig	hting Instructions	As in any fire, wear self-conta equivalent), and full protectiv	• • • •	•	· · ·
			Section 6. Acciden	tal Release I	Measures	
6.1 6.2	Protect Emerge Enviror	ency Procedures: Imental	Avoid breathing vapors and d As conditions warrant, wear and appropriate personal pro Take steps to avoid release	a NIOSH approved ptection (rubber boo	self-contained bre ts, safety goggles	
6.3		s and Material Fo	r Contain spill and collect, as ang Transfer to a chemical waste		sal in accordance	e with local regulations.
						Multi-region format



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		Section 7. Handling and Storage
7.1	Precautions To Be Taken A	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.
	Sectio	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 airborn
	(Ventilation etc.):	evels below recommended exposure limits.
8.2.2	Personal protection equipm	nent:
	Eye Protection: S	Safety glasses
	Protective Gloves: C	Compatible chemical-resistant gloves
	Other Protective Clothing:L	Lab coat
	Respiratory Equipment N	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	Do not take internally.
	ce Practices: F	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety
	-	shower.
	V	Wash thoroughly after handling.
	Ν	No data available.
	See	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physic	cal and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Physical States: Appearance and Odor:	[] Gas [X] Liquid [] Solid yellowish liquid
	-	
	Appearance and Odor:	yellowish liquid
	Appearance and Odor: pH: Melting Point: Boiling Point:	yellowish liquid No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt:	yellowish liquid No data. No data. No data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	yellowish liquid No data. No data. No data. No data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas):	yellowish liquid No data. No data. No data. No data. No data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	yellowish liquid No data. No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r	yellowish liquid No data. No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg):	yellowish liquid No data. No data. No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1):	yellowish liquid No data. No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1)	yellowish liquid No data. No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. Mo data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1) Solubility in Water:	yellowish liquid No data. No data. No data. No data. No data. No data. No data. No data. No data. UEL: No data. Mo data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1) Solubility in Water: Octanol/Water Partition	yellowish liquid No data. No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. Mo data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1) Solubility in Water:	yellowish liquid No data. No data. No data. No data. No data. No data. No data. No data. No data. UEL: No data. Mo data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1) Solubility in Water: Octanol/Water Partition	yellowish liquid No data. No data. No data. No data. No data. No data. No data. No data. No data. UEL: No data. Mo data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1) Solubility in Water: Octanol/Water Partition	yellowish liquid No data. No data. No data. No data. No data. No data. No data. No data. No data. UEL: No data. Mo data. No data.
	Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or r Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1) Solubility in Water: Octanol/Water Partition	yellowish liquid No data. No data. No data. No data. No data. No data. No data. No data. No data. UEL: No data. Mo data. No data.



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	Autoigni	tion Pt:	No d	ata.					
	Decomp	osition Temperate	ure: No d	ata.					
	Viscosit	y :	No d	ata.					
9.2	Other Inf	ormation							
	Percent	Volatile:	No d	ata.					
	Molecula	ar Formula & Weig	ght: C27	H28N6O•3HCI	561.9				
			Secti	on 10. Stab	ility and	Reactiv	/ity		
10.1	Reactivit	iy:	No data ava	ilable.					
10.2	Stability	:	Unstable [] Stable [X]					
10.3	Stability	Note(s):	Stable if sto	red in accordance	with informa	ation listed o	n the product	insert.	
	Polymer	ization:	Will occur [] Will not occ	cur [X]				
10.4	Conditio	ns To Avoid:	No data ava	ilable.					
10.5	Incompa	tibility - Materials	strong oxidiz	zing agents					
	To Avoid	•	0	0 0					
10.6	Hazardo	us	carbon dioxi	de					
	Decomp	osition or	carbon mon						
	Byprodu		nitrogen oxi	des					
			Sectio	n 11. Toxic	ological	Informa	tion		
11.1	Informat	ion on		gical effects of thi				udied	
		gical Effects:		gical checks of thi	5 product na	ve not been	thoroughly st		
		Toxicological	Hoechst 333	342 - Investigated	as a mutade	'n			
	Effects:	Toxicological		Registry of Toxic I	-		stances (RTF)	CS) data is pre	sented here
	Enects.		-	entry in RTECS for					
				342 RTECS Numb	-				
Carcir	nogenicity	' :	NTP? No	IARC Monogra			gulated? No		
CAS		Hazardous Com	oonents (Ch	-		NTP	IARC	ACGIH	OSHA
2349	91-52-3	Hoechst 33342				n.a.	n.a.	n.a.	n.a.
	2-18-5	Water				n.a.	n.a.	n.a.	n.a.
113	2-10-5	Water						11.a.	11.a.
			Sect	ion 12. Ecol	logical Ir	nformati	on		
12.1	Toxicity:			se into the environ					
			Runoff from	fire control or dilu	tion water m	ay cause po	llution.		
12.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No data ava	ilable.					
	Potentia	l:							
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5	Results	of PBT and vPvB	No data ava	ilable.					
	assessm	ient:							
12.6	Other ad	verse effects:	No data ava	ilable.					



Multi-region format

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ANSPORT (US I Shipping Name: Class: ber: ANSPORT (Euro ipping Name: s: NSPORT (ICAO/I Shipping Name: sport	Not dangerous goods. Depean ADR/RID): Not dangerous goods. MATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul	al, state, and federal sport Informa	regulations. tion	
ANSPORT (US I Shipping Name: Class: ber: ANSPORT (Euro ipping Name: s: NSPORT (ICAO/I Shipping Name: sport	Section 14. Tran DOT): Not dangerous goods. Depean ADR/RID): Not dangerous goods. MATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul	sport Informa	tion al regulations.	
Shipping Name: Class: ber: ANSPORT (Euro ipping Name: s: NSPORT (ICAO/I Shipping Name: sport	DOT): Not dangerous goods. Depean ADR/RID): Not dangerous goods. MATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul	cal, state, and federa	al regulations.	
Shipping Name: Class: ber: ANSPORT (Euro ipping Name: s: NSPORT (ICAO/I Shipping Name: sport	Not dangerous goods. Depean ADR/RID): Not dangerous goods. MATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul			
Class: ber: ANSPORT (Euro ipping Name: s: NSPORT (ICAO/I Shipping Name: sport	opean ADR/RID): Not dangerous goods. ATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul			
ber: ANSPORT (Euro ipping Name: s: NSPORT (ICAO/I Shipping Name: sport	Not dangerous goods. ATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul			
ANSPORT (Euro ipping Name: s: NSPORT (ICAO/I Shipping Name: sport	Not dangerous goods. ATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul			
ipping Name: s: NSPORT (ICAO/I Shipping Name: sport perfund Amendm	Not dangerous goods. ATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul			
s: NSPORT (ICAO/I Shipping Name: sport perfund Amendm	ATA): Not dangerous goods. Transport in accordance with lo Section 15. Regul			
s: NSPORT (ICAO/I Shipping Name: sport perfund Amendm	Not dangerous goods. Transport in accordance with lo Section 15. Regul			
Shipping Name: sport perfund Amendm	Not dangerous goods. Transport in accordance with lo Section 15. Regul			
sport	Transport in accordance with lo Section 15. Regul			
berfund Amendm	Section 15. Regul			
	, i i i i i i i i i i i i i i i i i i i	latory Informa	tion	
	, i i i i i i i i i i i i i i i i i i i	latory Informa	tion	
Hazardous Com	ents and Reauthorization Act	of 1986) Lists		
	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
Hoechst 33342		No	No	No
Water		No	No	No
Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
Hoechst 33342		CAA HAP,ODC: N PROP.65: No	lo; CWA NPDES:	: No; TSCA: No; CA
Water				: No; TSCA: Yes -
mation	This SDS was prepared in acco	ordance with 29 CFR	1910.1200 and R	egulation (EC)
	No.1272/2008.			
	Section 16. Oth	her Informatio	n	
	04/09/2018			
nation About	No data available.			
or Disclaimer:	currently available to us. Howev express or implied, with respect	ver, we make no warr t to such information,	anty of merchanta and we assume r	ability or any other warrant no liability resulting from its
		Hazardous Components (Chemical Name) Hoechst 33342 Water mation This SDS was prepared in accord No.1272/2008. Section 16. Oth 04/09/2018 nation About No data available. or Disclaimer: DISCLAIMER: This information currently available to us. However, express or implied, with respective. use. Users should make their colspan="2">Users should make their colspan="2">Users should make their colspan="2">Colspan="2">Claimer: Colspan="2">Claimer: DISCLAIMER: This information currently available to us. However, express or implied, with respective.	Hazardous Components (Chemical Name) Other US EPA or Hoechst 33342 CAA HAP,ODC: N PROP.65: No PROP.65: No Water CAA HAP,ODC: N Inventory; CA PR Inventory; CA PR mation This SDS was prepared in accordance with 29 CFR No.1272/2008. 04/09/2018 nation About No data available. or Disclaimer: DISCLAIMER: This information is believed to be accordure currently available to us. However, we make no warr express or implied, with respect to such information, use. Users should make their own investigations to	Hazardous Components (Chemical Name) Other US EPA or State Lists Hoechst 33342 CAA HAP,ODC: No; CWA NPDES: PROP.65: No Water CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No mation This SDS was prepared in accordance with 29 CFR 1910.1200 and R No.1272/2008. Section 16. Other Information 04/09/2018 nation About No data available. or Disclaimer: DISCLAIMER: This information is believed to be accurate and represe currently available to us. However, we make no warranty of merchanta express or implied, with respect to such information, and we assume r use. Users should make their own investigations to determine the suit



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Grindi				:	Supersedes Revision: 03/28/2017
	accord	ding to Regulation (EC) No. 19	07/2006 as amended b	oy (EC) No. 1272/200	08
	Section 1. Ide	entification of the Substan	nce/Mixture and of	the Company/U	ndertaking
	et Code: et Name:	601181 oxLDL-DyLight™ 488			
.2 Releva	nt identified uses of t	he substance or mixture a	and uses advised a	against:	
Relev	ant identified uses:	For research use only, n	ot for human or vete	erinary use.	
.3 Details	of the Supplier of the	e Safety Data Sheet:			
Comj	bany Name:	Cayman Chemical Com 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany		
Web	site address:	www.caymanchem.com			
Infor	mation:	Cayman Chemical Com	bany	+1 (73	4)971-3335
.4 Emerge	ency telephone numb	er:			
Emer	gency Contact:	CHEMTREC Within USA		-	0)424-9300 3)527-3887
		Section 2. Ha	zards Identifi	cation	
.1 Classif	ication of the Substa	nce or Mixture:			
.2 Label E	Elements:				
GHS	Signal Word:	None			
GHS	Hazard Phrases:				
Base	d on evaluation of curre	ently available data this sub	stance or mixture is	not classifiable ad	ccording to GHS.
GHS	Precaution Phrases:				
	nrases apply.				
	Response Phrases:				
-	nrases apply.				
	Storage and Disposa	I Phrases: Storage and Section 13 fo	r Dianogol informatic		
		Aterial may be irritating to t	-		spiratory tract
		Nay be harmful by inhalation			
		lay cause eye, skin, or resp	-	-	
	Т	o the best of our knowledge	e, the toxicological p	roperties have not	t been thoroughly investigated
	Sectio	on 3. Composition	/Information	on Ingredie	nts
CAS # / RTECS #	Hazardous Compor REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	oxLDL-DyLight™ 488		0.05 %	NA NA	No data available.
7647-14-5 √Z4725000	Sodium chloride		0.8 %	231-598-3 NA	No data available.
7447-40-7 FS8050000	Potassium chloride		0.02 %	231-211-8 NA	No data available.
7558-79-4 NC4500000	Sodium phosphate, Dib	pasic	0.14 %	231-448-7 NA	Eye Damage 2: H319
7778-77-0 FC6615500	Potassium phosphate,	Monobasic	0.24 %	231-913-4 NA	No data available.
7732-18-5 ZC0110000	Water		98.75 %	231-791-2 NA	No data available.
	•		+	-	Multi-region for



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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.
	• •	A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an Hazards:	dNo 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	: 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		r Contain spill and collect, as appropriate.
		ng 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.
	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 airborne
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equip	pment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing	J: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.
	0	
	S	ection 9. Physical and Chemical Properties
9.1	Information on Basic Phys	sical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A liquid
	pH:	7.4
	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 o	r mm No data.
	Hg):	
	Vapor Density (vs. Air = 1	I): No data.
	Specific Gravity (Water =	
	Solubility in Water:	No data.
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	No data.
	Decomposition Temperat	
	Viscosity:	No data.
	-	NU Uala.
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
10.1	Reactivity:	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	Conditions To Avoid:	No data available.
10.5	Incompatibility - Materials	
	To Avoid:	
10.6	Hazardous	No data available.
10.0	112201 110115	
		NA14:
		Multi-region forma



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Decomposition o	r
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Byproducts:

Section 11. Toxicological Information

CAS #	Hazardous Con	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	oxLDL-DyLight [⊤]	,	n.a.	n.a.	n.a.	n.a.
7647-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chlor	de	n.a.	n.a.	n.a.	n.a.
7558-79-4	Sodium phospha		n.a.	n.a.	n.a.	n.a.
7778-77-0		ohate, Monobasic	n.a.	n.a.	n.a.	n.a.
7732-18-5	Water		n.a.	n.a.	n.a.	n.a.
		Section 12 Ecologi		ion		
<u> </u>		Section 12. Ecologi		1011		
2.1 Toxici	ty:	Avoid release into the environment Runoff from fire control or dilution v		ollution		
	towno and		valer may cause p	onution.		
	tence and dability:	No data available.				
	cumulative	No data available.				
Potent						
	ty in Soil:	No data available.				
	-	No data available.				
	sment:					
2.6 Other	adverse effects:	No data available.				
		Section 13. Disposal	Considerat	ions		
3.1 Waste	Disposal Method:	•				
J.I Waste	Disposal method.	-		-		
		Section 14. Transp	on mormal	ion		
	TRANSPORT (US					
-	per Shipping Name	Not dangerous goods.				
	ard Class:					
	TRANSPORT (Eu					
UN Numb	Shipping Name:	Not dangerous goods.				
Hazard C						
	RANSPORT (ICAO	/IATA):				
	A Shipping Name:	-				
		Transport in accordance with local	, state, and federal	l regulations.		
ICAO/IAT	ansport		, ,	0		
	ansport	•				



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CAS # Ha NA ox 7647-14-5 Sc 7447-40-7 Pc 7558-79-4 Sc 7778-77-0 Pc 7732-18-5 W CAS # Ha NA ox 7647-14-5 Sc 7778-77-0 Pc 7558-79-4 Sc 7647-14-5 Sc 7558-79-4 Sc 7778-77-0 Pc	azardous Comp kLDL-DyLight™ odium chloride otassium chlorid odium phosphat otassium phosph (ater azardous Comp kLDL-DyLight™ odium chloride otassium chlorid odium phosphat	e e, Dibasic nate, Monobasic conents (Chemical Name) 488	S. 302 (EHS) No No No No No No No Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	·
NA ox 7647-14-5 Sc 7447-40-7 Pc 7558-79-4 Sc 7778-77-0 Pc 7732-18-5 W CAS # Ha NA ox 7647-14-5 Sc 7647-14-5 Sc 7647-14-5 Sc 77447-40-7 Pc 7558-79-4 Sc 7778-77-0 Pc	KLDL-DyLight™ odium chloride otassium chlorid odium phosphat otassium phosph /ater azardous Comp KLDL-DyLight™ odium chloride otassium chlorid	488 e e, Dibasic nate, Monobasic Donents (Chemical Name) 488	No No No No No No No Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No No No Yes 5000 LB No No r State Lists No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No No; TSCA: No; CA No; TSCA: Yes -
7647-14-5 So 7447-40-7 Po 7558-79-4 So 7778-77-0 Po 7732-18-5 W CAS # NA ox 7647-14-5 So 7647-14-5 So 7558-79-4 So 7778-77-0 Po 7778-77-0 Po 7778-77-0 Po	odium chloride otassium chlorid odium phosphat otassium phosph /ater azardous Comp kLDL-DyLight™ odium chloride otassium chlorid	e e, Dibasic nate, Monobasic conents (Chemical Name) 488	No No No No No Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No No Yes 5000 LB No No No r State Lists No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No No No No No; TSCA: No; CA No; TSCA: Yes -
7447-40-7 Pc 7558-79-4 Sc 7778-77-0 Pc 7732-18-5 W CAS # NA ox 7647-14-5 Sc 7447-40-7 Pc 7558-79-4 Sc 7558-79-4 Sc 7778-77-0 Pc	otassium chlorid odium phosphat otassium phospl /ater azardous Comp kLDL-DyLight™ odium chloride otassium chlorid	e, Dibasic nate, Monobasic conents (Chemical Name) 488	No No No No Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No Yes 5000 LB No No r State Lists No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No No No No No; TSCA: No; CA No; TSCA: Yes -
7558-79-4 So 7778-77-0 Po 7732-18-5 W CAS # NA ox 7647-14-5 So 7447-40-7 Po 7558-79-4 So 7778-77-0 Po	odium phosphat otassium phosph /ater azardous Comp kLDL-DyLight™ odium chloride otassium chlorid	e, Dibasic nate, Monobasic conents (Chemical Name) 488	No No No Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P Inventory; CA P	Yes 5000 LB No No r State Lists No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No No No; TSCA: No; CA No; TSCA: Yes -
7778-77-0 Pc 7732-18-5 W CAS # Ha NA ox 7647-14-5 Sc 7447-40-7 Pc 7558-79-4 Sc 7778-77-0 Pc	otassium phospł /ater azardous Comp kLDL-DyLight™ odium chloride otassium chlorid	nate, Monobasic ponents (Chemical Name) 488 e	No No Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No No r State Lists No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No No No; TSCA: No; CA No; TSCA: Yes -
7732-18-5 W CAS # Ha NA ox 7647-14-5 So 7447-40-7 Po 7558-79-4 So 7778-77-0 Po	/ater azardous Comp kLDL-DyLight™ odium chloride otassium chlorid	oonents (Chemical Name) 488 e	No Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No r State Lists No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No No; TSCA: No; CA No; TSCA: Yes -
CAS # Ha NA ox 7647-14-5 So 7447-40-7 Po 7558-79-4 So 7778-77-0 Po	azardous Comp kLDL-DyLight™ odium chloride otassium chlorid odium phosphat	488 e	Other US EPA o CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P Inventory; CA P	r State Lists No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No; TSCA: No; CA No; TSCA: Yes -
NA ox 7647-14-5 So 7447-40-7 Po 7558-79-4 So 7778-77-0 Po	kLDL-DyLight™ odium chloride otassium chlorid odium phosphat	488 e	CAA HAP,ODC: PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: No; CWA NPDES: ROP.65: No No; CWA NPDES:	No; TSCA: Yes -
7647-14-5 So 7447-40-7 Po 7558-79-4 So 7778-77-0 Po	odium chloride otassium chlorid odium phosphat	e	PROP.65: No CAA HAP,ODC: Inventory; CA P CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No No; CWA NPDES:	No; TSCA: Yes -
7447-40-7 Pc 7558-79-4 Sc 7778-77-0 Pc	otassium chlorid odium phosphat	-	Inventory; CA P CAA HAP,ODC: Inventory; CA P	ROP.65: No No; CWA NPDES:	·
7558-79-4 So 7778-77-0 Po	odium phosphat	-	Inventory; CA P		No; TSCA: Yes -
7778-77-0 Pc		e, Dibasic			
	otassium phospl		Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -
7732-18-5 W		nate, Monobasic	CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -
	/ater		CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -
Regulatory Inform Statement:	ation	This SDS was prepared in acc No.1272/2008.	cordance with 29 CFF	R 1910.1200 and Re	gulation (EC)
		Section 16. Of	ther Information	on	
Revision Date:		04/09/2018			
Additional Informa This Product:	ation About	No data available.			
Company Policy o	or Disclaimer:	DISCLAIMER: This information currently available to us. Howe express or implied, with resper use. Users should make their their particular purposes.	ever, we make no wa ct to such informatior	rranty of merchantak n, and we assume no	bility or any other warranty b liability resulting from its



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	Revision:	04/09/2018
Supersedes	Revision:	03/28/2017

	Saction 1 1	dentification of the Substance/Mixture and of th	e Company/I Indertaking
			e company/ondenaking
1	Product Code:	601182	
	Product Name:	Cell-Based Assay Myricetin	
	Synonyms:	Cannabiscetin; NSC 407290;	
		f the substance or mixture and uses advised aga	inst:
	Relevant identified uses:	For research use only, not for human or veterin	ary use.
3	Details of the Supplier of t	he 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
	Emergency telephone nun		
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
		Section 2. Hazards Identification	ation
	Classification of the Subst	ance or Mixture:	
2		e Irritation, Category 2 oxicity (single exposure), Category 3	
2	Specific Target Organ To		
2	Specific Target Organ To Label Elements:	oxicity (single exposure), Category 3	
2	Specific Target Organ To Label Elements: GHS Signal Word:		
<u>!</u>	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases:	oxicity (single exposure), Category 3 Warning	
!	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	oxicity (single exposure), Category 3 Warning	
	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye	warning warning	
	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate	Warning on. e irritation. ory irritation.	
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases	warning warning on. e irritation. ory irritation.	
<u>.</u>	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du	warning warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}.	
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thore	warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. oughly after handling.	n
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glassical}	Warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. bughly after handling. poves/protective clothing/eye protection/face protection	on}.
<u>.</u>	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases	warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. pughly after handling. oves/protective clothing/eye protection/face protection	on}.
<u>*</u>	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: V	warning warning on. a irritation. ory irritation. st/fume/gas/mist/vapors/spray}. sughly after handling. oves/protective clothing/eye protection/face protection/	
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: F	warning warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. bughly after handling. oves/protective clothing/eye protection/face protection wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posi	tion comfortable for breathing.
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective gle GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: F P305+351+338: IF IN EYE	warning warning on. a irritation. ory irritation. st/fume/gas/mist/vapors/spray}. sughly after handling. oves/protective clothing/eye protection/face protection/	tion comfortable for breathing.
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective gla GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing.	warning warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. bughly after handling. oves/protective clothing/eye protection/face protection wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes.	tion comfortable for breathing.
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P312: Call a POISON CEI	warning warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. oughly after handling. oves/protective clothing/eye protection/face protection : Vash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. NTER or doctor/physician if you feel unwell.	tion comfortable for breathing.
:	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P312: Call a POISON CEI P332+313: If skin irritation	warning warning on. e irritation. ory irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. oughly after handling. oves/protective clothing/eye protection/face protection wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. NTER or doctor/physician if you feel unwell. occurs, get medical advice/attention.	tion comfortable for breathing.
	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P312: Call a POISON CEI P332+313: If skin irritation P337+313: If eye irritation	warning warning on. a irritation. ory irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. bughly after handling. oves/protective clothing/eye protection/face protection poves/protective clothing/eye protection/face protection wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. NTER or doctor/physician if you feel unwell. occurs, get medical advice/attention. persists, get medical advice/attention.	tion comfortable for breathing.
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: F P305+351+338: IF IN EYE to do. Continue rinsing. P312: Call a POISON CEI P332+313: If skin irritation P337+313: If eye irritation	warning warning on. e irritation. ory irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}. oughly after handling. oves/protective clothing/eye protection/face protection wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posi ES: Rinse cautiously with water for several minutes. NTER or doctor/physician if you feel unwell. occurs, get medical advice/attention. persists, get medical advice/attention. minated clothing and wash it before reuse.	tion comfortable for breathing.

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Cayman

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Caj	man		Cen-Dase	u Assay Miji		Revision: 04/09/2018 Supersedes Revision: 03/28/2017			
2.3		e Human Health and Symptoms:	Causes serious eye irritation Causes skin irritation.						
	Lilooto		Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.						
			May cause respiratory syster	n irritation.					
			To the best of our knowledge	e, the toxicological pr	operties have no	t been thoroughly investigated.			
		Sec	tion 3. Composition	/Information of	on Ingredie	nts			
CAS RTE		Hazardous Com REACH Registra	ponents (Chemical Name)/ ition No.	Concentration	EC No./ EC Index No.	GHS Classification			
	9-44-2 46000	Myricetin		100.0 %	208-463-2 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Descri	ption of First Aid							
	Measu								
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.						
	In Case	e of Skin Contact:	Get immediate medical attention. 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	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.						
	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						
5.1		le Extinguishing	Use alcohol-resistant foam, o		r, or dry chemical	l spray.			
	Media:		Use water spray to cool fire-e						
	Media:		g A solid water stream may be	memcient.					
5.2		able Properties ar	ndNo data available.						
		-	No data available.						
	Flash F	Pt:	No data.						
	Explos	ive Limits:	LEL: No data.	UEL: No da	ıta.				
	Autoig	nition Pt:	No data.						
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-cont	ained breathing appa	aratus pressure-d	lemand (NIOSH approved or			
			equivalent), and full protectiv	e gear to prevent co	ntact with skin ar	nd eyes.			



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	Sec	tion 6. Accidental Release Measures
6.1	Protective Precautions, Avoid	d raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and As co	onditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures: and a	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 Cont	ain spill and collect, as appropriate.
	Containment and Cleaning Tran	sfer 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.
	Section	 Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls Use p	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: Safet	y glasses
	Protective Gloves: Comp	patible chemical-resistant gloves
	Other Protective Clothing:Lab c	oat
	Respiratory Equipment NIOS	H approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan Do no	ot take internally.
		ties storing or utilizing this material should be equipped with an eyewash and a safety shower.
		thoroughly after handling.
	No da	ata available.
	Sectio	on 9. Physical and Chemical Properties
9.1	Information on Basic Physical a	-
	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.
		Multi-region format



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								-	
	Specific G	Fravity (Water =	1):	No data.					
	Solubility	in Water:		No data.					
	Solubility	Notes:		Soluble in: EtC	DH; DMSO; DMF;				
	Octanol/W	later Partition		No data.					
	Coefficien	nt:							
	Autoigniti	on Pt:		No data.					
	-	sition Temperate	ure:	No data.					
	Viscosity:	-		No data.					
9.2	Other Info								
0	Percent V			No data.					
		Formula & Weig	aht.	C15H10O8	318.2				
	moloculai		-						
			S	ection 10.	Stability and	Reactiv	ity		
10.1	Reactivity	:	No data	a available.					
10.2	Stability:		Unstab	le [] Stab	ole [X]				
10.3	Stability N	lote(s):	Stable	if stored in acco	ordance with informa	tion listed or	the product	insert.	
	Polymeriz	ation:	Will oc	cur[] Will	not occur [X]				
10.4	Condition	s To Avoid:	No data	a available.					
10.5		bility - Materials	strong	oxidizing agent	s				
	To Avoid:	-	ouong	extension agent	0				
10.6	Hazardou		carbon	dioxide					
10.0	Decompo			monoxide					
	Byproduc		carbon	monoxide					
	Бургоцис	15.							
			Se	ction 11.	Foxicological	Informat	ion		
11.1	Informatio	on on	The to	cicological effect	ts of this product hav	ve not been t	horoughly st	udied.	
	Toxicolog	ical Effects:	Myricet	tin - Toxicity Da	ta: Oral TDLO (mous	se): 150 mg/	kg/3D (interm	nittent); Oral TI	DLO (rat): 3
			mg/kg/	3D (intermittent	:);				
	Chronic T	oxicological	Myricet	tin - Investigate	d as a mutagen and	natural prod	uct.		
	Effects:		Only se	elect Registry o	f Toxic Effects of Che	emical Subst	ances (RTE	CS) data is pre	sented here.
			See ac	tual entry in RT	ECS for complete in	formation.			
			Myricet	in RTECS Num	nber: LK8646000				
CAS	# I	Hazardous Com	ponents	s (Chemical Na	ame)	NTP	IARC	ACGIH	OSHA
529)-44-2	Nyricetin				n.a.	n.a.	n.a.	n.a.
		,			F a alla alla al la				
			5	ection 12.	Ecological Ir	itormatic	n		
12.1	Toxicity:		Avoid r	elease into the	environment.				
			Runoff	from fire contro	ol or dilution water ma	ay cause pol	ution.		
12.2	Persisten	ce and	No data	a available.					
	Degradab	ility:							
12.3	Bioaccum	ulative	No data	a available.					
	Potential:								
12.4	Mobility ir	n Soil:	No data	a available.					
12.5	-	f PBT and vPvB	No dat	a available.					
	assessme								
12.6		erse effects:	No dat	a available.					
12.0		5135 5115613.	NU Udl						
								ĸ	Iulti-region format
1								n	and region format



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		Casting 10 Disc					
		Section 13. Dispos					
13.1 Waste Di	isposal Method:	Dispose in accordance with loca		-			
		Section 14. Tran	sport Informa	tion			
14.1 LAND T	RANSPORT (US	DOT):					
-	r Shipping Name	: Not dangerous goods.					
DOT Hazaro							
UN/NA Num							
	-	opean ADR/RID):					
UN Number	hipping Name:	Not dangerous goods.					
Hazard Clas							
	ANSPORT (ICAO/	ΙΑΤΑ):					
	Shipping Name:	Not dangerous goods.					
Additional Tran	isport	Transport in accordance with lo	ocal, state, and federa	I regulations.			
Information:							
		Section 15. Regu	latory Informa	tion			
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
529-44-2	Myricetin		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	oonents (Chemical Name) Other US EPA or State Lists				
529-44-2	Myricetin		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Statement:		No.1272/2008.					
		Section 16. Oth	ner Informatio	n			
Revision Date:		04/09/2018					
Additional Infor	mation About	No data available.					
This Product:							
	y or Disclaimer:	DISCLAIMER: This information		-			
	y or Disclaimer:	currently available to us. Howev	ver, we make no warr	anty of merchanta	bility or any other warran		
	y or Disclaimer:	currently available to us. However express or implied, with respect	ver, we make no warr t to such information,	anty of merchanta and we assume r	bility or any other warran o liability resulting from it		
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