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	Section 2	. Identification of the Substan	ice/Mixture and of	f the Company/U	Indertaking		
.1	Product Code:	600507			, , , , , , , , , , , , , , , , , , ,		
	Product Name:	H4 Positive Control					
1.2	Relevant identified u	ses of the substance or mix	cture and uses a	dvised against	:		
	Relevant identified u	ses: For research use only, i	not for human or	veterinary use.			
1.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Com 1180 E. Ellsworth Rd.	ipany				
		Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com	ı				
	Information:	Cayman Chemical Com	ipany	+1 (73	4)971-3335		
1.4	Emergency telephor						
	Emergency Contact:	CHEMTREC Within US CHEMTREC Outside U		· ·	)0)424-9300 )3)527-3887		
				``	5)521-5001		
. <u> </u>		Section 2. Haz	zaros identifi	ication			
2.1		Substance or Mixture:	4070/0000 101 -				
2.1.1		ding to Regulation (EC) No		]:			
2.1.2	Risk Phrases:						
	RISK Phrases: For full text of R- phrases: see SECTION 15.						
		rases: see SECTION 15.					
2.2		rases: see SECTION 15.					
	For full text of R- ph Label Elements:	rases: see SECTION 15. to Regulation (EC) No 1272	/2008 [CLP]:				
	For full text of R- ph Label Elements:		/2008 [CLP]:				
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases	to Regulation (EC) No 1272					
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of	to Regulation (EC) No 1272 :: f currently available data this		ture is not class	ifiable according to GHS		
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr	to Regulation (EC) No 1272 :: f currently available data this		cture is not class	ifiable according to GHS		
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply.	to Regulation (EC) No 1272 :: f currently available data this ases:		cture is not class	ifiable according to GHS.		
	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra	to Regulation (EC) No 1272 :: f currently available data this ases:		ture is not class	ifiable according to GHS		
2.2 2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply.	to Regulation (EC) No 1272 :: f currently available data this ases: ses:		tture is not class	ifiable according to GHS		
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2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according	to Regulation (EC) No 1272 f currently available data this ases: ses: f of Storage and Section 13 to Directive 1999/45/EC:	substance or mix 3 for Disposal info	ormation.			
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea	to Regulation (EC) No 1272 fr f currently available data this ases: ses: sposal Phrases: n 7 for Storage and Section 13	substance or mix 3 for Disposal info o the mucous me	ormation. embranes and up	oper respiratory tract.		
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea	to Regulation (EC) No 1272 f currently available data this ases: ses: f or Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ns: May be harmful by inhalat May cause eye, skin, or re	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system	ormation. embranes and up skin absorption. irritation.	oper respiratory tract.		
2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea	to Regulation (EC) No 1272 f currently available data this ases: ses: f or Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating to ns: May be harmful by inhalatto May cause eye, skin, or record	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system	ormation. embranes and up skin absorption. irritation.	oper respiratory tract.		
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2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Section Labeling according Adverse Human Hea Effects and Sympton	to Regulation (EC) No 1272 f currently available data this ases: ses: f or Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating to ns: May be harmful by inhalatto May cause eye, skin, or record	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system dge, the toxicolog	ormation. embranes and up skin absorption. irritation. jical properties h	oper respiratory tract. have not been thoroughly		
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2.2.1	For full text of R- ph Label Elements: Labeling according GHS Signal Word: GHS Hazard Phrases Based on evaluation of GHS Precaution Phr No phrases apply. GHS Response Phra No phrases apply. GHS Storage and Di Please refer to Sectio Labeling according Adverse Human Hea Effects and Sympton Se	to Regulation (EC) No 1272 f currently available data this ases: ses: 5posal Phrases: n 7 for Storage and Section 13 to Directive 1999/45/EC: Ith Material may be irritating t ns: May be harmful by inhalat May cause eye, skin, or re To the best of our knowled investigated. Ction 3. Composition	substance or mix 3 for Disposal info o the mucous me ion, ingestion, or espiratory system dge, the toxicolog	ormation. embranes and up skin absorption. irritation. ical properties h on Ingredie	oper respiratory tract. have not been thoroughly ents		
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		Section 4	4. First Aid Measure	es		
4.1	Description of First A Measures:	<b>id</b> No data available.				
	In Case of Inhalation:		. If not breathing, give artificed attention.	cial respiration or give ox	ygen by trained	
	In Case of Skin Contact:		skin with soap and plenty of ng. Get medical attention if			
	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:	to an unconscious p	th water provided person is person. Get medical attentic medical personnel.	-		
	Section 5. Fire Fighting Measures					
5.1	Suitable Extinguishin Media:	•	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.			
	Unsuitable		n may be inefficient.			
5.2	Extinguishing Media: Flammable Properties and Hazards:					
	Flash Pt: No data.					
	Explosive Limits: LEL: No data. UEL: No data.					
	Autoignition Pt: No data.					
5.3	Fire FightingAs in any fire, wear self-contained breathing apparatus pressure-demand (NIOSHInstructions:approved or equivalent), and full protective gear to prevent contact with skin and eyes.			,		
	Section 6. Accidental Release Measures					
6.1		t As conditions warra	preathing dust, and provide ant, wear a NIOSH approve propriate personal protection	ed self-contained breathin	• • •	
6.2						
6.3	Methods and Material For Containment and Cleaning Up:Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulation		local regulations.			
	Section 7. Handling and Storage					
7.1	Precautions To Be Taken in Handling:	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.				
7.2	Precautions To BeKeep container tightly closed.Taken in Storing:Store in accordance with information listed on the product insert.					
	Section 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters	S:				
CAS	# Partial Chemic	al Name	Britain EH40	France VL	Europe	
	NA H4 Positive Cor	trol	No data.	No data.	No data.	
					Multi-region format	



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CAS #	¥	Partial Chemical	Name	OSHA TW	A	ACGIH TWA	Other Limits	
NA H4 Positive Contro		H4 Positive Contr	ol	No data.	No data.	No data.		
3.2	Expos	ure Controls:		+		1		
3.2.1	2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls					eering controls to		
	(Ventilation etc.): control airborne levels below recommended exposure limits.							
8.2.2	Perso	nal protection e	quipment:					
	Eye Pr	otection:	Safety glasses					
	Protect	tive Gloves:	Compatible chemical-resistant gloves					
	Other F	Protective ng:	Lab coat	.ab coat				
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant. (Specify Type):							
			Do not take interna	•				
	ance P	ractices:	-	Facilities storing or utilizing this material should be equipped with an eyewash and a				
			safety shower. Wash thoroughly a	fter handlin	r			
		_			-			
		S	ection 9. Phys	sical and	Chemical F	Properties		
9.1	Inform	ation on Basic F	Physical and Chem	ical Proper	ties			
	Physic	al States:		[ ] Liquid	[ X ] Solid			
	Appear	rance and Odor:	A lyophilized	d powder				
	Melting	g Point:	No data.					
	Boiling	J Point:	No data.					
	Flash F	Pt:	No data.					
	Evapor	ration Rate:	No data.					
	Explos	ive Limits:	LEL: No da	ta.	UE	EL: No data.		
	-	Pressure (vs. Ai	<b>r or</b> No data.					
	mm Hg							
	Vapor	Density (vs. Air	<b>= 1):</b> No data.					
	-	ic Gravity (Wate						
		lity in Water:	No data.					
	Autoig	nition Pt:	No data.					
9.2	Other I	Information						
	Percen	t Volatile:	No data.					
			Section 10	. Stability	y and Reac	ti∨ity		
10.1	Reactiv	vity:	No data available.					
10.2	•							
10.3	Stabilit	ty Note(s):	Stable if stored in accordance with information listed on the product insert.					
	Polymerization: Will occur [ ] Will not occur [ X ]							
10.4		ions To Avoid:	No data available.		-			
10.5		patibility -	No data available.					
	-	als To Avoid:						
10.6	Hazard Decom Byproc	position Or	No data available.					
							Multi-region fo	



# SAFETY DATA SHEET H4 Positive Control

Section 11. Toxicological Information						
-	mation on cological Effects:	The toxicological effects of t	his product have r	not been thorough	ly studied.	
Carcinoge	-	NTP? No IARC Monog	raphs? No O	SHA Regulated?	No	
		Section 12. Ecolo	ogical Informa	ation		
12.1 Toxi	city:	Avoid release into the enviro	onment.			
	Runoff from fire control or dilution water may cause pollution.					
		Section 13. Dispos	sal Considera	ations		
13.1 Was Meth	te Disposal nod:	Dispose in accordance with	local, state, and fe	ederal regulations		
		Section 14. Tran	sport Informa	ation		
14.1 LAI	ND TRANSPORT (	JS DOT):				
DOT Ha	oper Shipping Na azard Class: Number:	<b>me:</b> Not dangerous goods.				
14.1 LAI	ND TRANSPORT (I	European ADR/RID):				
	ID Shipping Name					
UN Nur						
Hazard						
	TRANSPORT (IC	•				
	Transport	e: Not dangerous goods. Transport in accordance wit	h local state and	federal regulation	ne -	
Informatio	•	Transport in accordance wit	in local, state, and		15.	
	Section 15. Regulatory Information					
EPA SARA	(Superfund Amendn	nents and Reauthorization Act				
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	H4 Positive Cont	rol	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists		
NA				No; TSCA: No; CA		
European Community Hazard Symbol codes:						
European Community Risk and Safety Phrases:						
S24/25 Avoid contact with skin and eyes.						
S37/39 Wear suitable gloves and eye/face protection.						
Regulatory Information This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and						
Statement: European Directive 67/548/EEC as amended.						
Section 16. Other Information						
Revision D	ate:	03/04/2014				
Additional Information About No data available. This Product:						
Company F	Policy or	DISCLAIMER: This informat	ion is believed to	be accurate and r	epresents the best	
Multi-region form						



Revision: 03/04/2014

Dicc	aimori
DISC	laimer:

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.