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1009 NA	29-71-3	NADPH (cyclohexyl a	mmonium salt)	100.0 %	NA NA	No data available.		
	CS #	,		Concentration	EC No./ EC Index No.	GHS Classification		
		Secti	on 3. Composition	/Information	on Ingredie	nts		
			To the best of our knowledge	e, the toxicological	properties have not	t been thoroughly investigated		
		, ,	May cause eye, skin, or resp	-	-			
	Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.							
3			Material may be irritating to t	•		spiratory tract.		
	GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.							
	No phrases apply. GHS Storage and Disposal Phrases:							
	GHS Response Phrases:							
	No phrases apply.							
	GHS Precaution Phrases:							
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
	GHS Hazard Phrases:							
	GHS S	Signal Word:	None					
.2	Label Elements:							
.1	Classifi	cation of the Subst	ance or Mixture:					
			Section 2. Ha	zards Identif	fication			
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887		
	Emerg	gency Contact:	CHEMTREC Within USA	and Canada:		0)424-9300		
.4	Emerge	ency telephone num	ber:					
	Inforn	nation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335		
	Web s	ite address:	www.caymanchem.com					
			Ann Arbor, MI 48108					
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd.	bany				
.3	Details	of the Supplier of th	ne Safety Data Sheet:					
	Relev	ant identified uses:	For research use only, ne	ot for human or vel	terinary use.			
.2	Relevar	nt identified uses of	the substance or mixture a	and uses advised	against:			
	-hydroxytetrahydrofuran-3-yl phosphate; Nicotinamide adenine dinucleotide phosph							
						xy)oxidophosphoryl)oxy)meth		
	Synony	ms:	tetracyclohexanamine (2R 3R 4R 5R)-2-(6-amir	o-9H-purin-9-vl)-5	-(((((((2R 3S 4R 5	R)-5-(3-carbamoylpyridin-1(4F		
	Produc		NADPH (cyclohexyl amn	nonium salt)				
.1		t Code:	20945					



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		Section 4. First Aid Measures					
4.1	Description of First Aid						
	Measures:						
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.					
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.					
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.					
		Section 5. Fire Fighting Measures					
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing	A solid water stream may be inefficient.					
	Media:						
5.2	Flammable Properties 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 Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.					
		Section 6. Accidental Release Measures					
6.1 6.2	Emergency Procedures: Environmental	 Avoid raising and breathing dust, and provide adequate ventilation. d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Take steps to avoid release into the environment, if safe to do so. 					
	Precautions:						
6.3		r Contain spill and collect, as appropriate.					
	Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.					
		Section 7. Handling and Storage					
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.					
7.2	Precautions To Be Taker	Keep container tightly closed.					
	in Storing:	Store in accordance with information listed on the product insert.					
	Sec	tion 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						



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	HIMICAL						
8.2	Exposure Controls:						
8.2.1	2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control a						
	(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 showe					
	l l	Wash thoroughly after handling.					
	No data available.						
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physi	cal 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.					
	Specific Gravity (Water = 1						
	Solubility in Water:	No data.					
	Solubility Notes:	~5 mg/ml in PBS (pH 7.2); ~1 mg/ml in EtOH; ~20 mg/ml in DMSO; ~0.2 mg/ml in DMF;					
	Octanol/Water Partition Coefficient:	No data.					
		No data					
	Autoignition Pt:	No data.					
	Decomposition Temperatu	No data.					
	Viscosity:	NU Uala.					
9.2	Other Information						
	Percent Volatile: Molecular Formula & Weig	No data. ht: C21H30N7O17P3 • 4C6H13N 1142.1					
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			Section 10. Stability a	ind Reactiv	vity				
10.1	1 Reactivity:		No data available.						
10.2	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	-		No data available.						
10.5	Incompa	atibility - Materials	strong oxidizing agents						
	To Avoi	d:							
10.6	Hazardo	ous	carbon dioxide						
	Decomp	osition or	carbon monoixde						
	Byprodu	ucts:	nitrogen oxides						
			phosphorous oxides						
			Section 11. Toxicologie	cal Informa	ation				
11.1	Information	tion on	The toxicological effects of this produce	ct have not beer	n thoroughly st	udied.			
	Toxicolo	ogical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
1009	29-71-3	NADPH (cyclohe:	kyl ammonium salt)	n.a.	n.a.	n.a.	n.a.		
		•	Section 12. Ecologica	al Informat	ion	•	-+		
12.1 Toxicity: Avoid release into the environment.									
	· · · · · · · · · · · · · · · · · · ·	-	Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data available.						
	Degrada	bility:							
12.3	Bioaccu	mulative	No data available.						
Potential:									
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	3 No data available.						
	assessment:								
12.6									
			Section 13. Disposal C	Considerat	ions				
13.1	·								
			Section 14. Transpo	rt Informat	ion				
14.1	LAND T	RANSPORT (US I							
D	OT Prope	r Shipping Name:	Not dangerous goods.						
	DOT Hazard Class:								
U	N/NA Nur	nber:							
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):						
A	DR/RID S	hipping Name:	Not dangerous goods.						
U U	N Numbe	r:							
н	azard Cla	ss:							



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods. Transport in accordance with local, state, and federal regulations.

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
100929-71-3	NADPH (cyclohe	xyl ammonium salt)	No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
100929-71-3	NADPH (cyclohexyl ammonium salt)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Infe Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	ner Informatio	on		
Revision Date:		01/08/2017				
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 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.				