List

## Material Safety Data Sheet (Documentation Requirements)

ection 1 – Product and Com Product Name	<u> </u>	Hemoglobin	E	morgoney	Telephone No				
Catalog Number		CD-HBG-480		Emergency Telephone No.					
Product Type		Clinical Chemistry Reager		CHEMTREC (800) 424-9300 International CHEMTREC (703) 527-3887					
Company Name		Concept Diagnostics		Company Telephone No.					
Street Address		2527 S. Greenwood Pl.,		909) 947-34					
City, State, Zip Code, Coun	ntrv	Ontarion, CA 91761 USA	<pre></pre>		9) 947-3162				
		<b>1</b> •			,				
ection 2 – Composition/Info		ngredients	Co	ncentratio	n	CAS#			
Hemoglobin Reagent:		tassium ferricyanide		mM	<b>u</b>	13746-66-2			
Hemoglobin Reagent.		tassium cyanide		mM		151-50-8			
Hemoglobin Standard:		ethemoglobin		g/dL		None			
Other components either non-		U		0	atina	None			
Julei components entiler non	-nazaruous or	at concentrations below th	lat requiring in	lazaruous n	sung.				
ction 3 – Hazards Identifica	ation								
Emergency Overview: Note: The following information of the response of the res				centrations	than present in the	reagent. Although low	er concentrations		
are present in the reagent, app				1. 0 (					
Potassium ferricyanide: Potassium cyanide:		itating to eyes, respiratory cic (USA) Very Toxic (EU					to at with alvin and		
i otassium cyamue:		ed. Contact with acids libe							
		se effects in the aquatic env					, may cause long-		
		HMIS Rating	inoninent. It	uiget öiguii	(5). Biood. Contrar i	NFPA Rating			
	Healt	8	Reac	tivity	Health	Flammability	Reactivity		
Potassium ferricyanide:	1	0		1	1	0	1		
Potassium Cyanide:	3*	0		1	-	0	1		
soussium Cyunde.	5								
ction 4 – First Aid Measure Oral Exposure f swallowed, wash out mout Inhalation Exposure	es h with large a	mounts of water provided J	ds present	scious. Cal	1.0				
ection 4 – First Aid Measure Oral Exposure If swallowed, wash out mout Inhalation Exposure If inhaled, remove to fresh ai Dermal Exposure In case of skin contact, imme physician	es h with large a r. If not breat	ase refer to section 11. mounts of water provided j hing give artificial respirat	ds present person is cons ion. If breath	scious. Cal	l a physician. cult, give oxygen.		noes. Call a		
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List

## Material Safety Data Sheet (Documentation Requirements)

Iemoglobin												
Section 7 – Handling and S	Storage											
Handling Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated ex Avoid inhalation or ingestion. Do not pipette by mouth. Refer to Section 8						<b>Storage</b> Keep tightly closed. Store according to package directions.						
Avoid initiatation of ingest	Ion. Do not	pipette by mo	buth. Kelei	r to Section	0							
ection 8 – Exposure Cont	rols / PPE											
<b>Engineering Controls</b> Safety shower and eye wa	ah ahavid h	availabla			Personal Protec				d. au	ate ventilation is satisfactory.		
Ventilation: General room			v.		Protective Glove							
General Hygiene Measur			,.		Eye Protection:							
Wash thoroughly after har					Other Protective	Equip	pment: L	ab coat recon	nmende	d. Use a safety pipette device		
Wash contaminated clothi	ng before re	euse.										
Exposure Limits: Potass	sium Cyani	de:										
Country	·		Туре					Value				
Poland			NDS									
Poland			NDSCh									
Poland	S. Dot'	m Current d	NDSP	TC075000	0)			5 mg/m <sup>3</sup>				
Exposure Limits, RTEC	S: Potassiu Sourc		KIEUS #	TS8/5000 Type	0)		Value			Remarks		
New Zealand	OEL	~								Check ACGIH TLV		
USA	NIOS	H		Ceiling c	concentration		4.7 PPM	(CN) / 10M				
( 0 D . 1D (												
ection 9 - Physical Data Boiling Point		Specific G	ovity (ale	3)	Solubility	in W	lator		App	arance		
N/A		N/A	avity (g/t		Soluble	in vi	ater			ent: Yellow liquid		
			Solution							ndard: Red liquid		
10 04 1994 - 11	D											
ection 10 – Stability and 1 Chemical	Stable	Conditions	of Instah				Motoria	la to Avoid				
Potassium ferricyanide	Stable	May discol			nt	Materials to Avoid           Strong acids.           Strong agents.						
Potassium cyanide	Stable				moist air or water							
		Absorbs ca	rbon dioxi	de from air.	. Light sensitive.							
Hazardous Decompositio	on Products	5										
Carbon monoxide, carbon		rogen oxides.	hydrogen	i cyanide, p	otassium oxides.							
Hazardous Polymerizati	on											
Will not occur.												
ection 11 – Toxicological	informatio	n										
Route of exposure								Exposure				
Potassium ferricyanide:						<b>Potassium ferricyanide:</b> To the best of our knowledge, the chemical, physical and toxicological						
Skin contact: Causes skin irritation. Skin absorption: May be harmful if absorbed through the skin.						st of o	our knowle we not be	edge, the che	mical, p	insted		
Eye contact: Causes eye i		bsorbed mot	gii the ski		properties	o or na	ive not be	en morougin.	y mvest	igated.		
Inhalation: May be harmf	ul if inhaled		irritating t	to mucous								
membranes and upper resp												
Ingestion: May be harmfu Route of exposure	u if swallow	ved.			Simo and	1 C	ntoma	Exposure				
Potassium Cyanide:					Potassiun			Exposure				
Skin contact: May cause skin irritation.						Material is extremely destructive to tissue of the mucous membranes and						
Skin contact: May cause s	Skin absorption: May be fatal if absorbed through the skin.						upper respiratory tract, eyes, and skin. Inhalation may result in spasm,					
Skin absorption: May be	fatal if abso		the skin.			inflammation and edema of the larynx and bronchi, chemical pneumonitis,						
Skin absorption: May be a Eye contact: May cause e	fatal if abso ye irritation				inflammat	tion a	nd edema		and br	onchi, chemical pneumonitis,		
Skin absorption: May be i Eye contact: May cause e Inhalation: May be fatal i	fatal if abso ye irritation f inhaled. N	Aaterial may l		g to mucous	inflammat s and pulmo	tion a onary	nd edema edema. S	Symptoms of	and br exposu	onchi, chemical pneumonitis, re may include burning		
Skin absorption: May be Eye contact: May cause e Inhalation: May be fatal i membranes and upper resp	fatal if abso ye irritation f inhaled. N piratory trac	/Iaterial may l t.		g to mucou	s and pulmo sensation,	tion a onary coug	nd edema edema. S hing, whe	Symptoms of ezing, laryng	and br exposu tiis, sh	onchi, chemical pneumonitis, re may include burning ortness of breath, headache,		
Skin absorption: May be i Eye contact: May cause e Inhalation: May be fatal i	fatal if abso ye irritation f inhaled. M piratory trac swallowed.	Aaterial may l t.	be irritating	0	s and pulmo sensation, nausea, ar	tion a onary coug nd vor	nd edema edema. S hing, whe miting. Ex	Symptoms of eezing, laryng posure can c	and br exposu gitis, she ause: L	onchi, chemical pneumonitis, re may include burning		

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CONCEPT DIAGNOSTICS

List

## Material Safety Data Sheet (Documentation Requirements)

Hemoglobi	n												
	– Toxicologi												
, i	Data: Potass	sium fe	rricyanid										
Species:	Dose:							e of Appli	ication:	Resul			
	Mouse 2,970 mg/kg						Oral			LD50			
				Effects of Ch	emical Subst	tances (RTEC	S) data	is presen	ted here. See actual	entry in R	TECS for complete		
informatio	on. (RTECS#	#: LJ82	(25000)										
Toxicity 1	Data: Potass	sium C	yanide:										
Species:	Dose:		Route of	Application:	Result:	Result: Remarks:							
Human	2.857 mg/k	kg	Oral		LDLO								
Rat	5 mg/kg		Oral		LD50								
Rat	4 mg/kg		Intraperit		LD50	Lungs, Tho	rax, or	Respirati	on: Other changes.				
Rat	7814 ug/kg		Subcutan	eous	LD50								
Rat	3600 ug/kg				LD50	Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Dyspnea.							
Mouse	8.5 mg/kg		Oral		LD50		<i>iuA</i> , 01	respirati	on. Dyspheu.				
Mouse	5991 ug/kg Intraperitoneal		oneal	LD50									
Mouse	6500 ug/kg		Subcutan		LD50								
Mouse	2600 ug/kg				LD50		Verve a	nd Sensa	tion: Flaccid paralys	is without	anesthesia (usually		
	2000 ug/kg	Þ			2000	neuromuscu					anoshiosia (asaany		
						Behavioral:							
									on: Respiratory stim				
Dog	6 mg/kg		Subcutan	eous	LD50				r effect on seizure thr				
Cat	2200 mg/k	g	Intraveno	us	LD50								
Rabbit	5 mg/kg		Oral		LD50								
Rabbit	3972 ug/kg	g	Intraperit	oneal	LD50	Blood: Oth	Blood: Other changes.						
Rabbit	4 mg/kg		Subcutan	eous	LD50	Lungs, Tho	rax, or	Respirati	on: Other changes.				
Rabbit	3256 ug/kg		Intramuse	cular	LD50								
Rabbit	7870 ug/kg	g	Ocular		LD50 Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): E				ste): Eye: Other.				
						Behavioral: Ataxia. Lungs, Thorax, or Respiration: Respiratory stimulation.							
Pigeon	4 mg/kg		Intramuse		LD50								
Note: On information	ly selected Roon. (RTECS#	egistry #: TS87	of Toxic I 750000)	Effects of Ch	emical Subst	tances (RTEC	S) data	is presen	ted here. See actual	entry in R	TECS for complete		
Chronic	Exposure – T	Feratoo	en: Pota	ssium Cvani	de								
Species:	Dose:			e of Applicati		sure Time:	Res	ult:					
Rat	40 mg/k	kg		peritoneal		D PREG			nbrvo or Fetus: Fetot	oxicity (ex	xcept death, e.g., stunted fetus).		
	Exposure – N										1, 8,		
Species:	•	0	Dose:	v					Cell Type:		Mutation Test:		
Rat			300 um	ol/L					Liver		DNA damage		
Mouse	Aouse 1 mm		1 mmol					Lymphocyte			DNA inhibition		
Mouse			1 mmol	/L	4	48H	Mammary gland				Cytogenetic analysis		
Chronic 1	Exposure – F	Reprod	uctive Ha	azard: Potas	sium Cyani	de:					·		
Species:		Dose:	<u> </u>	Route:	Exposure T	ime:		Result:	·				
Rat		65 gn							on Fertility: Other m				
Domestic	Domestic Animals 1767 mg/kg		Oral	8-20W PR	EG / 44D POS	ST	Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4). Effects on Newborn: Other neonatal measures or effects.						
	– Ecological												
	otoxicity Tes	sts: Pot	tassium (			г							
Test Type:				Species:				Time:			Value:		
			Lepomis macrochirus (Bluegill)				96 H			0.45 mg/L			
EC50 Daj				Daphnia mag							2 mg/L		
EC50 Daj				Daphnia mag	gna		24 H			0.53 1	mg/L		
	– Disposal C												
Contact a	licensed prof	fessiona	l waste di	isposal servic	e to dispose	of this materia	al. Obs	erve all f	ederal, state and loca	l environn	nental regulations.		
	– <b>Transport</b> s stable under			ns. Product is	s non-hazard	lous for transp	ort.						
						· · · ~r							

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List

## Material Safety Data Sheet (Documentation Requirements)

Potassium ferricyanide:	Potassium ferricyanide:
EU Additional Classification Symbol of Danger: Xi ndication of Danger: Irritant. Risk Statements: R: 32 36/37/38 Contact with acids liberates very toxic gas. Irritating to eyes, respiratory ystem and skin. Safety Statements: S: 26 36 n case of contact with eyes, rinse immediately with plenty of water and eek medical advice. Wear suitable protective clothing.	US Classification and Label Text Indication of Danger: Irritant Dangerous for the environment. Risk Statements: Irritating to eyes, respiratory system and skin. Contact with acids liberates very toxic gas. Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothin United States Regulatory Information SARA Listed: No Notes: This product is subject to SARA section 313 reporting requirement
	TSCA Inventory Item: Yes
Potassium Cvanide:	Potassium Cyanide:
3U Directives Classification Symbol of Danger: T+ N ndication of Danger: Very toxic. Dangerous for the environment. R: 26/27/28 32 50/53 Risk Statements: Very toxic by inhalation, in contact with skin and if wallowed. Contact with acids liberates very toxic gas. /ery toxic to aquatic organisms; may cause long-term adverse effects in the quatic environment. S: 7 28 29 45 60 61 Safety Statements: Keep container tightly closed. After contact with skin, vash immediately with plenty of soap-suds. Do not empty into drains. In ase of accident or if you feel unwell, seek medical advice immediately show the label where possible). This material and its container must be lisposed of as hazardous waste. Avoid release to the environment. Refer to pecial instructions/safety data sheets. Canada Regulatory Information WHMIS Classification: This product has been classified in accordance with he hazard criteria of the CPR, and the MSDS contains all the information	US Classification and Label Text Indication of Danger: Highly Toxic (USA) Very Toxic (EU). Dangerous for the environment. Risk Statements: Very toxic by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas. Causes burns. Ver toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Safety Statements: Keep container tightly closed. After contact with skin, wash immediately with plenty of water. Do not empty into drains. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets. US Statements: Target organ(s): Blood. Central nervous system. United States Regulatory Information SARA Listed: Yes Notes: This product is subject to SARA section 313 reporting requirement
equired by the CPR. DSL: Yes NDSL: No ction 16 – Other Information This Product is labeled in accordance with CFR21 (Food and Drugs), Section The information contained herein has been compiled from data presented in v	TSCA Inventory Item: Yes 809.10.