Safety Data Sheet

According to the REACH Regulations 1907/2006/EC Article 31, Federal OSHA, WHMIS

Section I Identification of the Substances/Mixture and of the Company/Undertaking

Distributor		Manufacturer		EC Representative	
Name	Beckman Coulter Inc	Name	Canterbury Scientific Ltd	Name	MDC Partners
Address	250 S Kraemer Blvd.,	Address	71 Whiteleigh Avenue	Address	Uitbreidingstraat
	Brea,		Christchurch, 8011		86/2
	CA 92821		NEW ZEALAND		2600 Antwerpen
	USA				BELGIUM
		Operating	9am to 5pm Local Time		
Telephone	+1-714-961-3659	Hour		Telephone	
Fax	+1-714-993-8737			Fax	+32 3 870 97 69
		Telephone	+64 3 343 3345	Email	+32 3 870 97
		Fax	+64 3 343 3342		info@mdcpartners
		Email	info@canterburyscientific.com		
Product Name Haemoglobin A1c Liquid Stable			Product Codes:	B12396, B12397	
	Controls Levels 1 a	nd 2			
Product Use	1, , , , , , , , , , , , , , , , , , ,			aterial to assess	
	laboratory instrument/reagent systems.			20b 0b 1 120	
Control materials should be handled and used as per the Instructions for Use provided with the control kit.					

Section II Hazards Identification

Product Description	Liquid mixture, cherry red containing human blood		
Classification according to Regulation (EC) No 1272/2008	Not Applicable		
Classification of the Product	These products do not contain any ingredients which have been determined to be health hazards or physical hazards pursuant to Federal OSHA (29 CFR 1910.1200), WHMIS and Regulation (EC) No 1272/2008		
Emergency overview	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. Potentially biohazardous material.		

Section III Composition / Information on Ingredients

Chemical Family	Liquid stabilized Human Red Cell Lysate Control Material	Chemical Name	Hemoglobin, human
Component	CAS Number	Concentration Ranges	EEC Symbol/Risk Phrases
Hemoglobin, human	9008-02-0	130 – 150 g/L	F Not Classified
Potassium Cyanide	151-50-8	<0.008%	T+; R26/27/28, R32 N; R50/53

The identity(ies) and concentration(s) of other ingredient(s) is/are withheld as a trade secret.

Section IV First Aid Measures

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Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes,
	occasionally lifting the upper and lower eyelids. Get medical attention if eye irritation occurs.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated
	clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if skin
	irritation occurs or if the product is in contact of skin breakage.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give
	anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide
	artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get
	medical attention if symptoms occur.

Section V Fire Fighting Measures

Flammability of the product	This product is not flammable. In a fire or if heated, a pressure increase will occur and the
	container may burst.
Extinguishing media	In case of fire, use water spray (fog), foam or dry chemical.
Not suitable	None known
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
	No action shall be taken involving any personal risk or without suitable training.
Hazardous combustion products	No specific data.
Special protective equipment for	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus
fire-fighters	(SCBA) with a full face-piece operated in positive pressure mode.

Section VI Accidental Release Measures

Personal precautions No action shall be taken involving any personal risk or without suitable training.

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Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section VIII).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section VII Handling and Storage

Handling
Put on appropriate personal protective equipment (see section VIII). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Storage
Storage
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section X) and food and drink. Storage conditions shall comply with that are stated in the information for use sheet. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section VIII Exposure Controls and Personal Protection

Product name Exposure limits
Haemoglobin A1c Liquid Stable Not determined
Controls Levels 1 and 2

Consult local authorities for acceptable exposure limits.

Consult local authorities for acceptal	
Recommended monitoring	If this product contains ingredients with exposure limits, personal, workplace atmosphere or
procedures	biological monitoring may be required to determine the effectiveness of the ventilation or other
	control measures and/or the necessity to use respiratory protective equipment.
Engineering measures	No special ventilation requirements. Good general ventilation should be sufficient to control worker
	exposure to airborne contaminants. If this product contains ingredients with exposure limits, use
	process enclosures, local exhaust ventilation or other engineering controls to keep worker
	exposure below any recommended or statutory limits.
	Wash hands, forearms and face thoroughly after handling chemical products, before eating,
	smoking and using the lavatory and at the end of the working period. Appropriate techniques
	should be used to remove potentially contaminated clothing. Wash contaminated clothing before
	reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection	
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a
	risk assessment indicates this is necessary. Respirator selection must be based on known or
	anticipated exposure levels, the hazards of the product and the safe working limits of the selected
	respirator.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all
	times when handling chemical products if a risk assessment indicates this is necessary.
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment
	indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin	Personal protective equipment for the body should be selected based on the task being performed
	and the risks involved and should be approved by a specialist before handling this product.
Environmental exposure	Emissions from ventilation or work process equipment should be checked to ensure they comply
controls	with the requirements of environmental protection legislation. In some cases, fume scrubbers,
	filters or engineering modifications to the process equipment will be necessary to reduce emissions
	to acceptable levels.

Section IX Physical and Chemical Properties

Product Name	Haemoglobin A1c Liquid Stable Controls Levels 1	Haemoglobin A1c Liquid Stable Controls Levels 2
Physical state	Liquid	Liquid
Color	Translucent, Cherry Red	Translucent, Cherry Red
Odor	Weak smell of blood	Weak smell of blood
Odor Threshold	Not Available	Not Available
pН	Neutral	Neutral
Melting/freezing point	Not Available	Not Available
Boiling point and Boiling	Not Available	Not Available
Range		
Flash point	Not Available	Not Available
Evaporation rate	Not Available	Not Available
Flammability/	Not Applicable	Not Applicable
Upper/Lower		
Flammability		
Vapor pressure	Not Available	Not Available
Vapor density	Not Available	Not Available
Relative density	Not Available	Not Available
Solubility(ies)	Not Applicable	Not Applicable
Partition coefficient	Not Available	Not Available
Auto-ignition	Not Applicable	Not Applicable
temperature		
Decomposition	Not Available	Not Available
temperature		
Molecular weight	Not Available	Not Available
Molecular formula	Not Available	Not Available
Volatility	Not Available	Not Available

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Viscosity Not Available Not Available

Section X Stability and Reactivity

Reactivity	No specific data.
Chemical Stability	The product is chemically stable
Possibility of Hazardous	Under normal conditions of storage and use, hazardous reactions will not occur.
Reactions	
Conditions to avoid	No specific data.
Incompatible Materials	No specific data. Not available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
products	
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

Section XI Toxicological Information

For information on the likely routes of exposure and symptoms related to the physical, chemical and toxicological characteristics, please see Section IV.

Immediate Effects – Short Term
Delayed Effects – Short Term
Chronic Effects – Short Term
Immediate Effects – Long Term
Delayed Effects – Long Term
Chronic Effects – Long Term
Chronic Effects – Long Term
On known significant effects
No known significant effects
No known significant effects
No known significant effects

United States

Acute toxicity Contains <0.008% of KCN. KCN has acute oral toxicity (LD 50) of 5mg/kg [rat].

Chronic toxicity
Carcinogenicity
Mutagenicity
Teratogenicity
Reproductive toxicity

Not Available
Not Available
Not Available

Canada

Acute toxicity Contains <0.008% of KCN. KCN has acute oral toxicity (LD 50) of 5mg/kg [rat].

Chronic toxicity
Carcinogenicity
Mutagenicity
Teratogenicity
Reproductive toxicity

Not Available
Not Available
Not Available

This product does not contain any hazardous chemicals listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition) or by OSHA.

Section XII Ecological Information

Environmental effects
Aquatic ecotoxicity
Biodegradability
Persistence and degradability
Bioaccumulative potential
Mobility in soil
Other adverse effects

No known significant effects or critical hazards.
No further relevant information available.
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water.

Section XIII Disposal Considerations

Waste disposal
The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil,

Disposal should be in accordance with applicable regional, national and local laws and regulations.

waterways, drains and sewers.

Refer to Section VII: HANDLING AND STORAGE and Section VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section XIV Transport Information

Haemoglobin A1c Liquid Stable Controls Levels 1	Not regulated
Haemoglobin A1c Liquid Stable Controls Levels 2	Not regulated
Haemoglobin A1c Liquid Stable Controls Levels 1	Not regulated
Haemoglobin A1c Liquid Stable Controls Levels 2	Not regulated
Haemoglobin A1c Liquid Stable Controls Levels 1	Not regulated
Haemoglobin A1c Liquid Stable Controls Levels 2	Not regulated
Haemoglobin A1c Liquid Stable Controls Levels 1	Not regulated
Haemoglobin A1c Liquid Stable Controls Levels 2	Not regulated
-	-
Haemoglobin A1c Liquid Stable Controls Levels 1	Not regulated
	Haemoglobin A1c Liquid Stable Controls Levels 2 Haemoglobin A1c Liquid Stable Controls Levels 1 Haemoglobin A1c Liquid Stable Controls Levels 2 Haemoglobin A1c Liquid Stable Controls Levels 1 Haemoglobin A1c Liquid Stable Controls Levels 2 Haemoglobin A1c Liquid Stable Controls Levels 1 Haemoglobin A1c Liquid Stable Controls Levels 1 Haemoglobin A1c Liquid Stable Controls Levels 2

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Haemoglobin A1c Liquid Stable Controls Levels 2 Not regulated

Section XV Regulatory Information

United States
HCS Classification Not regulated

U.S. Federal regulations TSCA 8(a) IUR: water

United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No

products were found.

State regulations California Prop 65: None of the components are listed.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. Connecticut Carcinogen Reporting: None of the components are listed. Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed. Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are

listed.

Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: None of the components are listed.
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: None of the components are listed. Rhode Island Hazardous Substances: None of the components are listed.

United States inventory Not determined.

(TSCA 8b) Canada inventory: Not determined.

Use only for medical diagnostic purposes

Canada

Canadian lists CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed. Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

Canada inventory Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section XVI Other Information

EU regulations	
Risk phrases	This product is not classified according to EU legislation.
International regulations	Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (ENCS): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.

NFPA Rating Index	Health	Flammability	Reactivity	Special Precautions
Health: 1= Caution may cause irritation				
Flammibility: 0 = Not Combustible	1	0	0	None
Reactivity: 0 = Stable, Not Reactive when				
mixed with water.				

Description of Hazard Class and Risk Phrases

T+ Very Toxic

N Dangerous for the environment

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed

R32 Contact with acid liberates very toxic gas

R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Notice to Readers

To the best of our knowledge, the information contained herein is accurate. However, the above-named manufacturer does not assume any liability whatsoever for the accuracy or completeness of the information contained herein.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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