

Material Safety Data Sheet

According to 93/112/EC, Federal OSHA

Section I Chemical Product and Company Identification

Distributor		Manufacturer	
Name	Tosoh Bioscience, Inc	Name	Canterbury Scientific Ltd
Address	6000 Shoreline Court Ste. 101, South San Francisco CA 94080, USA	Address	14 Pope Street Christchurch, 8011 NEW ZEALAND
Telephone	+1+800-248-6764	Telephone	+64 3 343 3345
Fax	+1-650-636-8131	Fax	+64 3 343 3342
Product Name	Haemoglobin A1c Control Levels 1 and 2	Catalog Nos:	220232, HB710
Product Use	Freeze dried human blood lysate matrix for in vitro diagnostic use as a quality control material to assess precision of laboratory instrument/reagent systems.		
Labeling Text	English Language with standard CE mark symbols	Danger Symbol(s)	F
Shipping Name	Canterbury Scientific Ltd 14 Pope Street Christchurch, 8011 NEW ZEALAND	IATA	Not Applicable

Section II Composition / Information on Ingredients

Chemical Family	Freeze dried stabilized Human Red Cell Lysate Control Material	Chemical Name	N/A
Component	CAS Number	Concentration Ranges	EEC Symbol/Risk Phrases
Chloramphenicol	56-75-7	≤0.1%	R:45
Potassium Cyanide	151-50-8	<0.005%	R26/27/28-32-50/53

These products do not contain any ingredients which have been determined to be health hazards pursuant to Federal OSHA with concentrations greater than 1% or more (0.1% or more for carcinogens) of the mixture.

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

Products contain a chemical known to the State of California to cause cancer. Contains ≤0.1% chloramphenicol.

Section III Hazards Identification

Eye Contact	Sensitivity to blood proteins. Potential undetected infectious agents.
Skin Contact	Sensitivity to blood proteins. Potential undetected infectious agents.
Ingestion	Though not a likely route of occupational exposure, ingestion of this product may cause choking, vomiting or nausea.
Inhalation	N/A
Chronic Exposure	N/A

Section IV First Aid Measures

Eye Contact	Although no adverse health reactions are expected from the normal use of this product, it is recommended to flush the eyes with water and seek medical advice whenever there has been a potential injury to the eye. Also seek medical advice re infectious risk.
Skin Contact	If contact with this product leads to reddening, inflammation, or irritation, flush the area with running water. If irritation persists, get medical attention. Also seek medical advice re infectious risk.
Ingestion	As a precaution, get medical attention if there has been ingestion of this product.
Inhalation	If breathing becomes difficult, remove victim to fresh air. Get medical attention.
Chronic Exposure	N/A

Section V Fire Fighting Measures

Autoflammability	Not Determined
Flash Point (test method)	Not Determined
Extinguishing Media	Use Fire Extinguishing media appropriate for site conditions.
Special Firefighting Procedures	Structural fire fighting gear and self-contained breathing apparatus will provide adequate protection if this product is in a fire area.
Fire and Explosion Hazard	Not Determined
Hazardous Combustion Products	Thermal decomposition may emit carbon monoxide and carbon dioxide.
Upper Explosion Limit %:	Not Determined
Lower Explosion Limit (%):	Not Determined

Section VI Accidental Release Measures

Spill and Leak Procedures	Wear protective clothing and gloves. Spillages of blood product are flooded with an equal volume of a solution containing 5,000 to 10,000 ppm available chlorine. This solution is then wiped up with paper towels and the surface is washed with soap and water. All waste materials are placed in a suitable container which is sealed and labeled and held for appropriate disposal as if potentially infectious.
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Section VII Handling and Storage

Storage Temperature	Store Vials as directed in the package insert.
Handling/Storage	Handle and store vials as directed in the package insert.
Ventilation Requirements	No special requirements
Sensitivity to Static Electricity	Not known
Sensitivity to Mechanical Impact	Not known

Section VIII Exposure Controls / Personal Protection

Respiratory Protection	Respiratory protection is not required under normal use of this product.
Ventilation	Supplemental ventilation is not required for the normal use of this product
Protective Gloves	Protective gloves are recommended
Other Engineering Controls	Eye wash stations and deluge showers.
Work Practices	Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. These products contain a small amount of potassium cyanide. Do not ingest. The products contain processed human blood. All blood donor units have been tested and found non-reactive for hepatitis B surface antigen, hepatitis C antibody, HIV-1 and HIV-2 antibodies and syphilis when tested by CE and Therapeutic Goods Administration (Australia) approved methods. No test method can offer complete assurance that a product derived from human blood will be free of these and other infectious agents. Handle as if potentially infectious with the same precautions used with patient specimens. These products should be handled at the Biosafety Level II as recommended for any potentially infectious human blood specimen in <i>Protection of Laboratory Workers from Occupational acquired Infections</i> , 3 rd Edn, Approved Guideline (2005) Document M29-A3, promulgated by Clinical and Laboratory Standards Institute, CLSI (formerly NCCLS).
Hygienic Practices	Do not eat, drink, or smoke while working with this product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

Section IX Physical Properties

Pure substance or preparation	Preparation	Physical form	lyophilised
Appearance/Odour	Red, odourless	pH as is	Neutral
Odour threshold	Not Determined	Boiling point (760mm Hg)	Not Determined
Melting/freezing point	Not Determined	Solubility in water	Complete
Partition coefficient	Not Determined	Relative density	Not Determined
Evaporation rate	Not Determined	Vapour pressure (mm Hg)	Not Determined
Vapour density (air = 1)	Not Determined	Viscosity	Not Determined
Volatiles	Not Determined	Volatile Organic Compounds	Not Determined
Autoflammability	Not Determined	Flash point	Not Determined

Section X Chemical Properties

Stability	Stable
Materials to avoid	Strong bases, strong acids and water reactive materials
Hazardous decomposition products	Thermal decomposition may emit carbon monoxide and carbon dioxide
Oxidising Properties	Not Determined

Section XI Toxicological Information

Route of Entry	Ingestion, skin and /or eye contact		
Effects of chronic exposure	Not Known	Effects of acute exposure	Not known
Special health effects	Not Known	Target organs	Not known

Section XII Ecological Information

Potential effect on environment	Not Known	Potential to bioaccumulate	Not known
Mobility	Not Known	Ecotoxicity	Not known
Persistence and biodegradability	Not known	Aqua toxicity	Not known

Section XIII Disposal Considerations

Waste Disposal	Please consult local and state federal regulations for additional guidance on disposal. Dispose of as if potentially infectious.
Empty container warnings	Potentially Biohazardous Material

Section XIV Transport Information (See also Section IX)

Not classified as hazardous for transport or dangerous goods.

Section XV Regulatory Information

EEC hazard classification	Not known
Risk phrases	As above
Safety phrases	S:53-45, S:7-28-29-45-60-61

Section XVI Other Information

Directives 88/379/EEC and 91/155/EEC have been considered when compiling this SDS: The information is provided for health and safety assessment by an industrial user. Reference should be made to any relevant local or national health, safety or environmental legislation. This information does not constitute indication of suitability for specific uses.

This information, data and recommendations contained herein are based upon information believed by Canterbury Scientific Ltd, after reasonable investigation and research, to be accurate. However Canterbury Scientific Ltd does not warrant the accuracy of this information. All materials and mixtures may present unknown hazards and should be used with caution. When necessary or appropriate, independent opinions regarding risk of handling or exposure should be obtained from trained professionals