

SAFETY DATA SHEET

Information of the substance/mixture and of the company/undertaking	
1.1 Commercial product name	HbA1c Calibrator Set
Cat. No.:	HA3444
1.2 Company:	RANDOX Laboratories Ltd., 55 Diamond Road, Crumlin, Co. Antrim, United Kingdom, BT29 4QY Tel: +44 (0) 28 9442 2413; Fax: +44 (0) 28 9445 2912 Email: msds@randox.com Website: www.randox.com
1.3 In Emergencies:	Tel: +44 (0) 28 9442 2413

2. Hazards identification	
Calibrator Level 1	Sodium Hydroxide - 0.4% Octylphenoxy polyethoxyethanol (Triton X-100) - 2.5%
Classification:	No hazardous chemicals as classified by CHIP 3
Calibrator Levels 2-6	Contains no hazardous substances in reportable quantities
Classification:	No hazardous chemicals as classified by CHIP 3

3. Composition / Information on Ingredients	
Calibrator 1 Warnings:	For <i>in vitro</i> diagnostic use only. Do not pipette by mouth. Handle laboratory reagents in accordance with Good Laboratory Practice. May cause irritation to the eyes, respiratory system and skin. Avoid contact with skin, inhalation and ingestion.
Risk phrases:	None
Safety phrases:	None
Calibrators 2 - 6 Warnings:	For <i>in vitro</i> diagnostic use only. Do not pipette by mouth. Handle laboratory reagents in accordance with Good Laboratory Practice. Avoid contact with skin, inhalation and ingestion.
Risk phrases:	None
Safety phrases:	None

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4. First aid measures for C	Calibrator Level 1
Emergency First Aid:	Call a physician immediately. Arrange for transport to the nearest ER (emergency room). While awaiting the physician or transport to the ER:
Inhalation:	If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion:	If the patient is conscious, rinse out mouth with water and have the patient drink a glass of water or milk to dilute the material. Get immediate medical attention.
Skin Contact:	Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
4. First aid measures for C	calibrator Level 2 - 6
Emergency First Aid:	Call a physician immediately. Arrange for transport to the nearest ER (emergency room). While awaiting the physician or transport to the ER:
Inhalation:	If it occurs move patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion:	If the patient is conscious, rinse out mouth with water and have the patient drink a glass of water or milk to dilute the material. Transport to hospital for further medical attention.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before re-use.
Eye Contact:	In case of eye contact immediately flush eyes with copious amounts of water for at least 15 – 20 minutes. Transport to hospital for further medical attention.

5. Fire-fighting measures	
Flash point:	None
Flammable limits:	Not applicable
Extinguishing media:	Use whatever is required for the surrounding area
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards:	None determined
Thermal decomposition:	Not determined

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6. Accidental release measures	
Calibrator Level 1	
After spillage:	Appropriate Personal Protective Equipment should be worn, e.g. laboratory coat, gloves, safety glasses and mask.
	Dilute spill with water. Neutralise with dilute acetic acid. Take up with absorbent material and place in a suitable container. Wipe up area with a damp paper towel and discard.
	Ventilate area and wash spill site after material pick up is complete.
Absorbent material:	No restriction
Calibrator Level 2 - 6	
After spillage:	Appropriate Personal Protective Equipment should be worn, e.g. laboratory coat, gloves, safety glasses and mask.
	Take up with absorbent material and place in a suitable container.
	Wipe up area with a damp paper towel and discard.
	Ventilate area and wash spill site after material pick up is complete
Absorbent material:	No restriction

7. Handling and storage	
7.1 Handling:	Wash thoroughly after handling. Do not use if skin is cut or scratched. Avoid contact with eyes, skin and clothing.
7.2 Storage	Store at temperatures and conditions as indicated on the product label
Do not store together:	N/A

8. Exposure controls/personal protection	
Calibrator Level 1 - 6	
MEL/OES	Not determined
Respiratory protection:	None required
Ventilation:	General room ventilation
Eye protection:	Protective glasses
Hand protection:	Standard laboratory rubber or latex gloves.
Skin protection:	A laboratory coat or apron is recommended.

9. Physical and chemical properties

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Calibrator Level 1		
Physical state:	Liquid	
Colour:	Dark Green Solution	
Odour:	Not determined	
pH value:	13	
Boiling point	Not determined	
Melting point:	Not applicable	
Oxidising properties:	Not determined	
Ignition temperature	Not determined	
Explosion limits:	Not determined	
Density:	Not determined	
Solubility in water:	Soluble	
Calibrator Level 2 - 6		
Physical state:	Liquid	
Colour:	Clear, colourless to yellow, aqueous solution	
Odour:	No odour	
pH value:	3.0	
Boiling point	Not determined	
Melting point:	Not applicable	
Oxidising properties:	Not determined	
Ignition temperature	Not determined	
Explosion limits:	Not determined	
Density:	Not determined	
Solubility in water:	Soluble	

10. Stability and reactivity	
Calibrator Level 1	
Stability:	Stable
Conditions to avoid:	Avoid excessive heat
Substances to avoid:	Avoid strong acids and metals
Hazardous decomposition products:	None determined
Calibrator Levels 2 - 6	
Stability:	Stable
Conditions to avoid:	None determined
Substances to avoid:	None determined
Hazardous decomposition products:	None determined

11. Toxicological information:

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Calibrator Level 1	
LD50 oral	LD50 oral rat:
	Sodium hydroxide 140 - 340 mg/kg
	Octyl Phenoxy Polyethoxy Ethanol 5 gm/kg
LD50 intra-peritoneal	Not determined
LD50 skin	Not determined
LC50 inhalation	Not determined
Toxicological information: Chronic effects of overexposure: Carcinogen or suspected carcinogen: Medical conditions aggravated by exposure:	Not thoroughly investigated Repeated contact with sodium hydroxide solutions may cause dermatitis. None of the components are listed as a carcinogen or suspected carcinogen. Pre-existing skin diseases and conditions
Acute toxicity: Inhalation: Ingestion: Skin contact: Eye contact: Acute toxicity values:	Inhalation of mists may cause membrane and respiratory irritation. Swallowing may cause gastrointestinal irritation. Contact may cause irritation with redness, pain and swelling. Contact may cause irritation with possibly burns on prolonged contact. LD50 oral rat: Sodium hydroxide 140 – 340 mg/kg Octyl Phenoxy Polyethoxy Ethanol 5 gm/kg
Calibrator Level 2 - 6	
LD50 oral	Not determined
LD50 intraperitoneal	Not determined
LD50 skin	Not determined
LC50 inhalation	Not determined
Toxicological information: Chronic effects of overexposure: Carcinogen or suspected carcinogen: Medical conditions aggravated by exposure:	Not thoroughly investigated None currently known None of the components are listed as a carcinogen or suspected carcinogen. None currently known.
Acute toxicity: Inhalation: Ingestion: Skin contact:	Inhalation of mists mat cause membrane and respiratory irritation. Swallowing may cause gastrointestinal irritation. Contact may cause mild irritation, particularly on prolonged or repeated contact.
Eye contact: Acute toxicity values:	May cause mild irritation. Not applicable

12. Ecological information

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Calibrator Level 1	
Water hazard class:	Data not yet available
	Ecological effects of this mixture have not been determined.
	This product contains 2.5% of a surfactant, Triton X-100 which has a reported TL50 for bluegill sunfish of 12 mg/L/96hr static.
Calibrator Level 2 - 6	
Water hazard class:	Data not yet available
	Ecological effects of this mixture have not been determined.

Refer to Section 6.		13. Disposal considerations	Each disposal facility must determine proper disposal methods of the substance or preparation and any contaminated packaging to comply with Local and National Environmental Regulations Refer to Section 6.	
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14. Transport Information

Calibrator Level 1

Proper shipping name: Sodium hydroxide solution

Technical Name: UN number: UN1824

Hazard class and packaging group: 8, III

Label(s): Corrosive

Packing Instruction (Passenger Aircraft): LATA 819 (5 L max, 2.5 L max inner pkg) Packing Instruction (Cargo Aircraft): LATA 821 (60 L max, 5 L max inner pkg)

Unit volume: 8 mL

Primary container type: 15 mL Plastic, HD polyethylene

Sales Unit: 1 bottle / kit

Calibrator Level 2 - 6

Proper shipping name: Not regulated

Technical Name: UN number: N/A

Hazard class and packaging group: Not regulated

Label(s): N/A

Packing Instruction (Passenger Aircraft): N/A
Packing Instruction (Cargo Aircraft): N/A

Unit volume: 2 mL

Primary container type: 7.5 mL Plastic, HD polyethylene

Sales Unit: 1 of each level / kit

GGVE/GGVS:	Data not yet available	RID/ADR	Data not yet available
ICAO/IATA-DGR:	Data not yet available	UN-Nr.:	Data not yet available
IMDG-CODE:	Data not yet available	MFAG	Data not yet available
		EMS:	Data not yet available

15. Regulatory information

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Revision: C

Date: 19th May 2010



Calibrator 1	This product contains no hazardous chemicals in reportable quantities according to CHIP 3.
Hazard symbol:	None
Risk phrases:	None
Safety phrases:	None
Precautions:	See Section 3
Calibrators 2 - 6	This product contains no hazardous chemicals in reportable quantities according to CHIP 3.
	Orm 3.
Hazard symbol:	None
Hazard symbol: Risk phrases:	
,	None

16. Other information	ther information	
	The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any National laws and guidelines applicable.	

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