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1. Information of the substance/mixture and of the company/undertaking	
1.1 Commercial product name	HbA1c Kit
Cat. No.:	HA3830
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: <u>msds@randox.com</u> Website: <u>www.randox.com</u>
1.3 In Emergencies:	Tel: +44 (0) 28 9442 2413

2. Hazards identificatio	2. Hazards identification		
HbA1c R1 Antibody Reagent			
Chemical Name:	Contains no hazardous substances in reportable quantities		
Proclin 150	0.1%		
Classification:	No hazardous chemicals as classified by CHIP 3		
<u>HbA1c R2 Agglutinator</u> <u>Reagent</u>			
Chemical Name:	Contains no hazardous substances in reportable quantities		
Proclin 150	0.1%		
Classification:	No hazardous chemicals as classified by CHIP 3		
<u>Total Haemoglobin</u> Reagent			
Chemical Name:	Contains no hazardous substances in reportable quantities		
Sodium Hydroxide Octylphenoxypoly	0.4% (Exposure limit: 2 mg/m 3 PEL-TWA, 2 mg/m3 TLV-Ceiling) 2.5% (Exposure limit: None established)		
Ethoxyethanol Triton X-100	2.5%		
Classification:	No hazardous chemicals as classified by CHIP 3		
<u>Haemogobin</u> <u>Denaturant</u> Chemical Name: N/A	Contains no hazardous substances in reportable quantities		
Classification:	No hazardous chemicals as classified by CHIP 3		



3. Composition / Information on Ingredients		
<u>HbA1c R1 Reagent</u> 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, avoid inhalation and ingestion.	
Risk phrases:	None	
Safety phrases:	None	
<u>HbA1c R2 Reagent</u> 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, avoid inhalation and ingestion.	
Risk phrases:	None	
Safety phrases:	None	
<u>Total Haemoglobin</u> <u>Reagent</u> 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 eye/skin irritation. Avoid contact with skin, avoid inhalation and ingestion.	
Risk phrases:	None	
Safety phrases:	None	
<u>Haemoglobin Denaturant</u> 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, avoid inhalation and ingestion.	
Risk phrases:	None	
Safety phrases:	None	

4. First aid measures HbA1c R1 rgt, HbA1c R2 rgt & Haemoglobin Denaturant		
Emergency First Aid:	Call a physician immediately. Arrange for transport to the nearest ER (emergency room). While awaiting the physical 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:	Remove any contaminated clothing. Wash off with soap and water. 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. Rinse thoroughly with plenty of water, also under the eyelids. Transport to hospital for further medical attention.	
First aid measures Tota	ıl Haemoglobin rgt	
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	
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	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 contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention if irritation persists. Wash contaminated clothing before re-use	
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.	

5. Fire-fighting measures	
Flash point:	None
Flammable limits:	N/A
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

6. Accidental release measures	
HbA1c R1 rgt, HbA1c R2 rgt & Haemoglobin Denaturant After spillage:	Take up with absorbent material and place in a suitable container. Wipe up area with a damp paper towel and discard. Appropriate Personal Protective Equipment should be worn, e.g. laboratory coat, gloves, safety glasses and mask. Ventilate area and wash spill site after material pick up is complete.
Absorbent material:	No restriction
Total Haemoglobin rgt	
After spillage:	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.Appropriate Personal Protective Equipment should be worn, e.g. laboratory coat, gloves, safety glasses and mask.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		
MEL/OES Not determined		
Respiratory protection:	None required	
Ventilation	Use 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 for HbA1c R1 rgt	
Physical state:	Liquid
Colour:	White suspension in aqueous solution
Odour:	No odour
pH value:	8.1
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:	Insoluble

9. Physical and chemical properties for HbA1c R2 rgt	
Physical state:	Liquid
Colour:	Clear, colourless solution
Odour:	Not determined
pH value:	2.0
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

9. Physical and chemical properties for Total Haemoglobin rgt	
Physical state:	Liquid
Colour:	Clear, colourless 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

9. Physical and chemical properties for Haemoglobin Denaturant	
Physical state:	Liquid
Colour:	Clear, colourless solution
Odour:	Not determined
pH value:	2.4
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 for HbA1c R1 rgt, HbA1c R2 rgt & Haemoglobin Denaturant	
Stability: Stability:	
Conditions to avoid:	Conditions to avoid:
Substances to avoid:	Substances to avoid:
Hazardous decomposition products:	Hazardous decomposition products:

10. Stability and reactivity for Total Haemoglobin rgt	
Stability:	Stable
Conditions to avoid:	Avoid excessive heat
Substances to avoid:	Avoid strong acids and metals

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Hazardous decomposition products:

11. Toxicological information for HbA1c R1 rgt, HbA1c R2 rgt & Haemoglobin Denaturant	
LD50 oral	LD50 oral
LD50 intraperitoneal	LD50 intraperitoneal
LD50 skin	LD50 skin
LC50 inhalation	LC50 inhalation
Toxicological information:	Toxicological information:
Chronic effects of overexposure: Carcinogen or suspected carcinogen:	Chronic effects of overexposure: Carcinogen or suspected carcinogen:
Medical conditions aggravated by exposure: Acute toxicity: Inhalation: Ingestion: Skin contact:	Medical conditions aggravated by exposure: Acute toxicity: Inhalation: Ingestion: Skin contact:
Eye contact: Acute toxicity values:	Eye contact: Acute toxicity values:

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

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12. Ecological information		
HbA1c R1 rgt		
Water hazard class:	Data not yet availableEcological effects of this mixture have not been determined.This product contains 0.1% Proclin 150 which contains 1.2% 5-chloro-2-methyl-4-isothiazolin-3-one & 0.4% 2-methyl-4-isothiazolin-3-one. The activeingredients have a 48 hr EC50 of 0.16ppm in Daphnia Magna & a LC50 inRainbow Trout of 0.19ppm.This product also contains approximately <0.1% of suspended latex particles.	
HbA1c R2 rgt		
Water hazard class:	Data not yet available Ecological effects of this mixture have not been determined. This product contains 0.1% Proclin 150 which contains 1.2% 5-chloro-2-methyl- 4-isothiazolin-3-one & 0.4% 2-methyl-4-isothiazolin-3-one. The active ingredients have a 48 hr EC50 of 0.16ppm in Daphnia Magna & a LC50 in Rainbow Trout of 0.19ppm. This product contains 0.2% of a non-ionic surfactant.	
Total Haemoglobin rgt 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 12mg/L/96hr static.	
Haemoglobin Denaturant		
Water hazard class:	Data not yet available Ecological effects of this mixture have not been determined.	
13. Disposal considerations		

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.

14. Transport Inform	ation		
HbA1c R1 rgt, HbA1	c R2 rgt & Haemoglobin Denaturant	t	
Proper shipping name	e: Not regulated		
Technical name:			
UN number: N/A			
Hazard class and pac	kaging group: Not regulated		
Label(s): N/A			
Packing Instruction (p	assenger aircraft): N/A		
Packing Instruction (C	Cargo Aircraft): N/A		
Unit Volume: 23 mL fo	or HbA1c R1 rgt & HbA1c R2 rgt		
110 mL fc	or Total Haemoglobin rgt		
Primary Container Typ	pe: 30 mL Amber plastic, HD polyethyle	ene for HbA1c R1 rgt	& HbA1c R2 rgt
	125 mL Plastic, HD polyethylene		
Sales Unit: 1 bottle / k	tit		
Total Haemoglobin r	gt:		
Proper shipping name	e: Sodium hydroxide solution		
Technical name:			
UN number: UN1824			
Hazard class and pac	kaging group: 8, III		
Label(s): Corrosive			
Packing Instruction (p	assenger aircraft): LATA 819 (5 L max,	2.5 L max inner pkg)	
Packing Instruction (C	Cargo Aircraft): LATA 821 (60 L max, 5	L max inner pkg)	
Unit Volume: 38 mL			
Primary Container Typ	pe: 125 mL Plastic, HD polyethylene		
Sales Unit: 1 bottle / k	it		
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	
HbA1c R1 Reagent	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
HbA1c R2 Reagent	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
Total Haemoglobin Reagent	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
Haemoglobin Denaturant	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

16. Other 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.