RANDOX

1. Information of the substance/mixture and of the company/undertaking	
1.1 Commercial product name	Ammonia (RX Series)
Cat. No.:	AM3979
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 identification	
	Buffer (R1a & R2b) - Contains Sodium Hydroxide (0.52%)
	GLDH Reagent (R2a) - Contains Sodium Azide (0.2%)
Classification:	Buffer (R1a & R2b) - Xi; Irritant
	<u>GLDH Reagent (R2a)</u> - Xn; Harmful

3. Composition / Informat	3. Composition / Information on Ingredients	
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 skin and eyes, may be irritating to mucous membranes and upper respiratory tract. Avoid contact with skin, inhalation and ingestion. The Buffer Solutions (R1a & R2b) contain Sodium Azide (<0.1%w/v). The GLDH Reagent (R2a) contains sodium azide (0.2%). Sodium azide reacts with lead or copper plumbing to form potentially explosive azides. When disposing of such reagents flush with large volumes of water to prevent azide build up. Exposed metal surfaces should be cleaned with 10% sodium hydroxide.	
<u>Buffer (R1a & R2b)</u> Risk phrases:	R36/38; Irritating to eyes and skin	
Safety phrases:	S26; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S36/S37/39; Wear suitable protective clothing, gloves and eye/face protection S45; In case of accident or you feel unwell seek medical advice immediately (show label where possible).	
<u>GLDH Reagent (R2a)</u> Risk phrases:	R22; Harmful if swallowed R32; Contact with acids liberates very toxic gas R52/53; Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
Safety phrases:	 S28; After contact with skin, wash immediately with plenty of water S45; In case of accident or you feel unwell seek medical advice immediately (show label where possible) S60; This material and its container must be disposed of as hazardous waste S61; Avoid release to the environment. Refer to special instructions/safety data sheet 	



4. First aid measures	
Emergency First Aid:	Call an internal First Aider where available or else contact a physician immediately. Direction for First Aider or Physician:
Inhalation:	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Ingestion:	If swallowed wash out mouth with water provided person is conscious, call a physician.
Skin Contact:	In case of skin contact immediately wash skin with soap and copious quantities of water.
Eye Contact:	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.

5. Fire-fighting measures	
Flash point:	Not determined
Flammable limits:	Not determined
Extinguishing media:	No restriction
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire and Explosion Hazards:	May emit toxic fumes under fire conditions
Thermal decomposition:	Not determined

6. Accidental release measures	
After spillage:	Use appropriate spill absorbent kit as instructed by the manufacturer. Alternatively, mop up with an absorbent material and hold for waste disposal. 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
Eye protection:	Protective glasses
Hand protection:	Standard laboratory rubber or latex gloves.
Skin protection:	A laboratory coat or apron is recommended

Ammonia: AM3979 Revision: B Date: 22nd March 2010

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9. Physical and chemical properties	
Physical state:	Liquid (Buffers and GLDH Reagent)
	Lyophilised Plug (NADPH Reagent)
Colour:	Buffers and GLDH Reagent - Colourless
	NADPH Reagent – Colourless when reconstituted
Odour:	Odourless
pH value:	Not determined
Boiling point	Not determined
Melting point:	Not determined
Oxidising properties:	Not determined
Ignition temperature	Not determined
Explosion limits:	Not explosive
Density:	Not determined
Solubility in water:	Soluble

10. Stability and reactivity	
Stability:	Stable
Conditions to avoid:	Not determined
Substances to avoid:	Strong oxidising agents, also acids.
Hazardous decomposition products:	Not determined

11. Toxicological information:	
LD50 oral	Not determined
LD50 intraperitoneal	Not determined
LD50 skin	Not determined
LC50 inhalation	Not determined
Toxicologic information:	Not thoroughly investigated

12. Ecological information	
Water hazard class:	Data not yet available

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				
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	
	Classified according to CHIP 3.
Hazard symbol:	Buffer (R1a & R2b) - Xi; Irritant
	GLDH Reagent (R2a) - Xn; Harmful
Buffer (R1a & R2b) Risk phrases:	R36/38; Irritating to eyes and skin
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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.