

1. Information of the substance/mixture and of the company/undertaking	
1.1 Commercial product name	UREA Urease – Berthelot method Colorimetric
Cat. No.:	UR1068
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	
Sodium Nitroprusside	Sodium Nitroprusside 6 mmol/l
Phenol	Phenol 840mmol/l
Sodium Hypochlorite	Sodium Hydroxide 4.9mol/l Sodium Hypochlorite 33.7%v/v
Classification:	Xn; Harmful (Sodium Nitroprusside component) T; Toxic (Phenol component) C; Corrosive (Sodium Hypochlorite component)

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, avoid inhalation and ingestion. The Urease and Standard components contains Sodium Azide (<0.1%w/v). 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>Phenol only</u> Risk phrases:	R24/25; Toxic in contact with skin and if swallowed R34; Causes burns
Safety phrases:	S28; After contact with skin, wash immediately with plenty of water S45; In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
<u>Sodium Hypochlorite only</u> Risk phrases:	R35; Causes severe burns R31; Contact with acids liberates toxic gas
Safety phrases:	S26; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28; After contact with skin, wash immediately with plenty of water S37/39; Wear suitable gloves and eye/face protection S45; In case of accident or if you feel unwell, seek medical advice immediately (show label where possible) S50; Do not mix with acids
<u>Sodium Nitroprusside only</u>	R32; Contact with acids liberates very toxic gas R20/21/22; Harmful by inhalation, in contact with skin and if swallowed S36/37; Wear suitable protective clothing and gloves S45; In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

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. Furthermore, for phenol and sodium hypochlorite ingestion give water to drink.
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

9. Physical and chemical properties	
Physical state:	Liquid
Colour:	Colourless (Standard) Slightly white (Phenol concentrate) Sodium Nitroprusside component (Reddish / brown solution) Urease and Sodium Hypochlorite (Pale green)
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 determined
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	<p>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</p> <p>Refer to Section 6.</p>
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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	
Hazard symbol:	<p>Xn; Harmful (Sodium Nitroprusside component)</p> <p>T; Toxic (Phenol component)</p> <p>C; Corrosive (Sodium Hypochlorite component)</p> <p>(Outer Box Label to show Toxic Symbol)</p>
<p><u>Phenol only</u></p> <p>Risk phrases:</p> <p>Safety phrases:</p>	<p>R24/25; Toxic in contact with skin and if swallowed</p> <p>R34; Causes burns</p> <p>S28; After contact with skin, wash immediately with plenty of water</p> <p>S45; In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)</p>
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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.