

Australian Supplier

In Vitro Technologies Pty. Ltd.

Street/P.O.Box:

Country code/Postal code/Town/City:

Telephone / Telefax:

Emergency information:

7-9 Summit Road

Noble Park, Melbourne, VIC 3174

+61397713700 / +61397713720

Poisons Information Centre: Tel. 131126

Pro-TECT® M

Material Safety Data Sheet (MSDS)

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Product: Pro-TECT®M ALL

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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

- 1.1 Trade Name: **PRO-TECT®M**
- 1.2 Manufacturer/Supplier: **Medisafe UK Limited**
- 1.3 Marketing Address: **Twyford Road, Bishops Stortford, Herts, CM23 3LJ
TEL: 01279 461641 FAX: 01279 461643
E-mail: info@medisafe.uk.com www.medisafeuk.com**
- 1.4 Manufacturing Address: as above

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	CAS#	Wt. %
Moisturiser: alcohol	000064-17-5	5-10%
Pot reagent: copper sulphate	007758-98-7	1-5%
	497-19-18	1-5%
<u>Non-hazardous Ingredients</u>		
Moisturiser: water	7732-18-5	90-95%
Cuvette reagent: water	7732-18-5	95-99%
Pot reagent: water	7732-18-5	95-99%

3. HAZARDS IDENTIFICATION

- 3.1 Moisturiser: Clear colourless solution, alcohol odour
Cuvette reagent: Clear light blue solution, odourless
Pot reagent: Clear, slight yellow solution, odourless
- 3.2 Potential health effects
All component reagents: May cause slight eye and mucous membrane irritation. No skin and ingestion effects currently known. Inhalation effects: No exposure expected under normal conditions.
Chronic effects / carcinogenicity: None of the components in this product is listed by IARC, NPT or ACGIH as a carcinogen.

4. FIRST-AID MEASURES

- 4.1 All component reagents:
- Eye** Immediately flush eyes with plenty of water for 15 minutes. Get medical attention immediately.
- Skin** Wash with water
- Ingestion** Wash out mouth with water. Drink 1 or 2 glasses of water. Get medical attention. Only induce vomiting under the instruction of a physician. Never give anything by mouth to an unconscious person.
- Inhalation** No exposure expected under normal conditions.

5. FIRE-FIGHTING MEASURES

- 5.1 **Unusual fire and explosion hazard**
- | | | | |
|-------------------------------|--|-------------------------|---------------------|
| Fire Fighting measures | Moisturiser: | Cuvette reagent: | Pot reagent: |
| | May be flammable by excessive heating. | None | None |



- 5.2 **Extinguishing media** Water spray, dry chemical, CO₂, alcohol resistant foam. Reagent is non-combustible. Use appropriate agent for surrounding fire.
- 5.3 **Fire fighting** Wear self-contained breathing apparatus and protective clothing to prevent Contact with skin and eyes.
- 5.4 **Hazardous combustion products** carbon monoxide, carbon dioxide carbon monoxide, carbon dioxide None

6 ACCIDENTAL RELEASE MEASURES

Spill and leakage procedures

- 6.1 **Moisturiser:** Wear personal protective equipment (see Section 8). Ventilate closed spaces before entering. Absorb spill with inert material (eg. dry sand or earth), then place in a chemical waste container.
- 6.2 **Cuvette reagent:** Wear personal protective equipment (see Section 8). Flush to sewer after neutralization, if permitted, otherwise absorb spill with inert material (eg. dry sand or earth), then place in a chemical waster container.
- 6.3 **Pot reagent:** Wear personal protective equipment (see Section 8). Absorb spill with inert material (eg.dry sand or earth), then place in a chemical waste container.

7 HANDLING AND STORAGE

- 7.1 **Handling:** **All component reagents:** Keep out of reach of children, avoid contact with eyes, skin and clothing. Wear personal protective equipment (see Section 8). Wash thoroughly after handling.
- 7.2 **Prevention of fire and explosion:** No special precautionary measures should be required under usual conditions.
- 7.3 **Storage:** Keep container tightly closed. Store this product at room temperature: 50-95°F (10-35°C).
- Safe handling by trained professional staff in accordance with label instructions only. Not to be mixed with other chemicals. Keep from children.
- 7.2 **Storage guidelines:** Store in dry place not below 0°C or above 30°C and out of direct sunlight. Keep lidded. Keep from foodstuffs and drinks.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | TWA | STEL |
|------------------------------------|--------------------|------|
| 8.1 Ethanol (Moisturiser) | 100ppm | |
| Sodium carbonate (Cuvette reagent) | None established | |
| Copper sulphate (Pot reagent) | 1mg/m ³ | |



All component reagents:

8.2	Engineering controls	Not required under normal conditions
	Respiratory protection	Not required under normal conditions
	Skin Protection	Impervious gloves should be worn
	Eye Protection	Safety glasses should be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

	<u>Moisturiser:</u>	<u>Cuvette reagent</u>	<u>Pot reagent:</u>	
9.1	Appearance	Clear colourless sol ⁿ	Clear slight yellow sol ⁿ	Clear light blue sol ⁿ
9.2	Odour	Alcohol odour	Odourless	Odourless
9.3	pH	Not available	11 – 11.8	3.8 – 4.4
9.4	Vapour pressure	Not available	Approx 17mmHg (68°F)	Approx 17mmHg (68°F)
9.5	Vapour density	Not available	Approx. 0.6	Approx 0.6
9.6	Evaporation rate	Not available	Approx. 1.0 (H ₂ O=1)	Approx 1.0 (H ₂ O=1)
9.7	Boiling Point	Not available	Approx. 100°C	Approx. 100°C
9.8	Melting Point	Not available	Not applicable	Not applicable
9.9	Solubility	Fully soluble in water	Fully soluble in water	Fully soluble in water
9.10	Specific Gravity	Not available	Not available	Not available

10 STABILITY AND REACTIVITY

All reagent components:

10.1	Stability	Stable		
10.2	Incompatibility	No hazardous reactions known		
10.3	Hazardous decomposition products	<u>Moisturiser:</u> Carbon dioxide, carbon monoxide	<u>Cuvette reagent:</u> Carbon dioxide, carbon monoxide	<u>Pot reagent:</u> None known

All reagent components:

10.4	Hazardous polymerisation	Hazardous polymerisation will not occur.
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11 TOXICOLOGICAL INFORMATION

11.1	<u>Moisturiser (ethanol):</u> Acute oral toxicity Eye irritation Skin irritation	LD50: >2000mg/kg [rat] Moderate [rabbit] Mild [rabbit]
11.2	<u>Cuvette reagent (sodium carbonate):</u> Acute oral toxicity Inhalation Skin irritation	LD50: 4090mg/Kg [rat], LD50: 6600 mg/kg [mouse] LC50: 2300mg/m ³ / 2H [rat] Mild [rabbit]
11.3	<u>Pot reagent (copper II sulphate):</u> Acute oral toxicity (entire reagent) Acute oral toxicity (copper sulphate)	LD50: >2000mg/kg [rat] LD50: 300mg/kg [rat] <copper (II) sulphate pentahydrate



12 ECOLOGICAL INFORMATION

All reagent components:

12.1 No data available

13 DISPOSAL CONSIDERATIONS

All reagent components:

13.1 When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14 TRANSPORT INFORMATION

UN Class

14.1 Not regulated

15 REGULATORY INFORMATION

Labeling according to EC Regulations:

15.1 No labels required

16 OTHER INFORMATION

16.1 No further information