



MATERIAL SAFETY DATA SHEET

PRODUCT: MANUTEC SOIL pH TEST KIT

Date of Issue: 16 AUG 2021

Valid until: 15 AUG 2026

GHS Format

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product (material) Name: Manutec Soil pH Test Kit

Other names: None

Manufacturer's code: MTO8000

Recommended use: For testing the acidity or alkalinity (pH) of soils, potting mixes, compost and other solid materials.

Manufacturer/Supplier Information:

Name: MANUTEC PTY LTD

Address: 30 Jonal drive, Cavan, South Australia 5094

Telephone No:+61-8-8260 2277 **Fax:**+61-8-8260 2399

Email: manutec@manutec.com.au

Emergency contact: Poisons Information Centre (Australia) 131126

2. HAZARDS IDENTIFICATION

ADG Code:Non allocated, Non-Dangerous according to the criteria of the Australia Dangerous Goods Code

HazChem Code:None allocated, NOT Hazardous according to the criteria of NOHSC (National Occupational Health & Safety Commission)

Risk phrase(s): None allocated

Poisons Schedule: None allocated

Safety phrase(s): None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>Chemical Entity</u>
Part 1: Indicator Liquid	Diluted (proprietary) alkaline solution with mixture of Indicator dyes
Part 2: White Powder	Barium Sulphate

4a. FIRST AID MEASURES – PART-1 (INDICATOR LIQUID)

- Swallowed:** Wash/rinse mouth out with water. Seek immediate medical advice or attention.
- Eye:** Flush eyes immediately for at least 15 minutes, lifting eye lids, with copious amounts of water. Seek immediate medical attention.
- Skin:** Wash thoroughly with soap and plenty of water. If irritation develops seek medical attention.
- Inhaled:** Move from contaminated area to fresh air. If discomfort persists seek medical attention.

4b. FIRST AID MEASURES – PART-2 (BARIUM SULPHATE)

- Swallowed:** Do not induce vomiting. Give up to 200ml water, Wash/Rinse Seek immediate medical advice or attention.
- Eye:** Flush eyes immediately for at least 15 minutes, lifting eye lids, with copious amounts of water. Seek immediate medical attention.
- Skin:** Wash thoroughly with soap and plenty of water.
- Inhaled:** Move from contaminated area to fresh air. If discomfort persists seek medical attention

5. FIRE FIGHTING MEASURES

- Flammability conditions:** Both Indicator Liquid and White Barium Sulphate materials are not flammable and incombustible.
- Extinguishing media:** No particular restrictions, use appropriate considering surrounding fire conditions
- Hazards from combustion:** Both materials in this kit are non combustible.
- Protective Equipments:** Fire fighters should wear a positive pressure self contained breathing apparatus and protective fire fighting clothing/gear.

6. ACCIDENTAL RELEASE MEASURES

- General Response/Cleanup Procedure:** Both materials in this kit are non dangerous and non hazardous, Any spillage of indicator liquid may cause stain upon spilling, so clean up with rags/absorbant material asap. Any spillage of Barium dust can be cleaned up by careful sweep or vacuum clean.

7. HANDLING AND STORAGE

- 7.1 Safe Handling:**
1. When using the product, DO NOT eat, drink or smoke
 2. Avoid contact with skin & eyes and take off immediately all contaminated clothing
 3. DO NOT empty the contents into drains
 4. Wear suitable protective gloves, dust masks for protection if required.
 5. Indicator Liquid may stain skin, but harmless, can easily be washed off with soap and water.

7.2 Safe storage conditions: Store in a cool and dry place in original containers and away from food stuffs, pets and Children.
Keep containers tightly closed when not in use.
Leakage from Indicator liquid will stain other material or articles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure standards/limits: No data available
Biological limit values: No information is available
Engineering controls: As this product is a retail package, no wide spread contamination is expected. However a system of local/general exhaust is recommended to keep exposure as low as possible.
- Personal Protection equipment: Both Indicator Liquid & Barium Sulphate materials are non dangerous and non hazardous, however to avoid any staining from Indicator liquid and as general safety reasons, it is recommended to use normal garden or protective gloves while handling or using this product. Safety glasses can be used as required while dusting Barium Sulphate.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** **Indicator Liquid:** dark green and reddish colour
Barium Sulphate: white powder
- Odour:** Indicator Liquid is with earthy organic smell and Barium Sulphate is odourless.
- Melting Point range
Barium Sulphate: >1,350°C
Indicator Liquid: not available
- Boiling Point range
Not available
- Flash Point:
Not flammable
- Ignition temperature:
Not flammable
- Oxidising properties:
None
- Explosive properties:
No danger of explosion
- Vapour pressure:
not available
- Density:
Indicator Liquid: 1.2g/ml
Barium Sulphate: 4.4g/ml
- pH value:
Indicator liquid: approx. 6.5
Barium Sulphate: approx. 6-6.5

10. STABILITY AND REACTIVITY

Reactivity:	no specific reactive is known
Chemical stability:	stable under normal use conditions
Hazardous reactions:	Barium Sulphate may react with addition of strong reducing agents
Conditions to avoid:	For Barium Sulphate above 1300 °C (melting point)
Incompatible materials:	For Barium Sulphate - strong reducing agents
Hazardous decomposition products:	Sulphur oxides, Bao

11. TOXICOLOGICAL INFORMATION

FOR PART-1 – INDICATOR LIQUID

ACUTE EFFECTS

Swallowed:	Adverse human effects have not been determined.
Eyes:	May cause irritation.
Skin:	May cause irritation.
Inhaled:	Odour may cause irritation to nasal passages and throat.

CHRONIC EFFECTS: No comprehensive human or animal studies have been conducted for long term effects.

FOR PART-2 – BARIUM SULPHATE

SUMMARY OF HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Barium Sulphate is inert, practically non-toxic and chemically non-irritating. Skin contact may cause mechanical irritation due to abrasion. Eye contact will result in no specific effects other than general particulate irritation in the eye. Not absorbed by the body.

ACUTE EFFECTS: Inhalation of dust may cause mechanical irritation to the respiratory tract. Skin and eye contact may cause a mechanical abrasion irritation.

CHRONIC EFFECTS: No Toxic effects known

12. ECOLOGICAL INFORMATION

Ecotoxicity: Non toxic, no specific data available

Persistence and degradability: not applicable

Mobility: not applicable

Bioaccumulative potential: not applicable.

13. DISPOSABLE CONSIDERATIONS

- Disposable methods:** Non hazardous waste, dispose in accordance with all local, state and federal regulations.
- Packaging/containers:** Containers/packaging must be treated as waste and disposed in accordingly depending on material type. Plastic packaging can be treated as recycled waste as appropriate.

14. TRANSPORT INFORMATION

- UN number:** None allocated, This product is not classified as a hazardous and non dangerous goods
- UN Proper shipping name:** None allocated
- Class & subsidiary risk:** None allocated
- Packing group:** None
- Special precautions for user:** Fragile packing, use/handle with care to avoid damage/spill
- Hazchem code:** None (Non hazardous)

15. REGULATORY INFORMATION

- Regulatory status of product/materials:** Not available

16. OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

STATEMENT OF DISCLAIM:

This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format. All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon this information. No expressed or implied warranties are given other than those implied mandatorily by Federal, State or Territory Legislation.