



Sharing the best in Gardening

GENERAL RISK ASSESSMENT

RHS Form D1 (Revised) Issue No: 1 Dated: September 2011

(a) Title of Risk Assessment:	Soils KS2	(b) Location:	RHS Garden Rosemoor				
		(c) Written by:	J. Hickson	(e) Date:	September 2012		
		(d) Signature:	<i>John Hickson</i>	(f) Review Date:	August 2013		
(g) Safety Code/s and other documents relevant to this risk assessment:		(h) List all staff involved in activity:	(i) Other Groups at risk: (Put a cross in Yes or No)				
<ul style="list-style-type: none"> Education 001 – School visits Education 005 – Exploring the outdoors 		Education Officers – John Hickson – Sarah Chesters	Volunteers:	Yes:		No:	x
			The public:		x		
			Visitors:		x		
			Contractors:				x
			School Groups:		x		
			Students:				x
(j) Sign to confirm all staff listed above have read the relevant Safety Code/s:		<i>Sarah Chesters / John Hickson</i>					
(k) Hazards:	(l) Precautions:	(m) Risk Rating			(n) Precaution in place? (Yes or No)		
		L	M	H			
Education Officer to carry Radio at all times					YES		
Handling soil - Tetanus	<ul style="list-style-type: none"> See Education 005 - 2.0 Risks from soil Children must be adequately supervised by accompanying adults. Provide hand washing facilities. Plastic gloves can be provided especially if child has cuts on his/her hands Any cuts to children's' hands to be covered by a plaster School asked to check that children have received tetanus immunisation. 			x	YES		
Soil pH – Indicator solution and Barium Sulphate. Possible source of eye and respiratory irritation	<ul style="list-style-type: none"> Students to be given instructions on how to use equipment Lids and tops to be kept on when not in use To avoid contact with eyes and mouths Water available for cleaning if required. See attached safety sheets on each substance. 		x		YES		
Soil Auger	<ul style="list-style-type: none"> Instructions given to children on how to use and carry the auger - keep back straight when pulling out of the ground, not to swing the auger whilst carrying, be aware of others around you whilst using the auger. 	x			YES		

KEY: L = Low Risk (Risk of minor injury or minor ill health issue); M = Medium Risk (Risk of injury or ill health causing 4 days or more off work); H = High Risk (Risk of death or major injury/ill health)

RHS Risk Assessment - Form D1

(k) Hazards:	(l) Precautions: <i>(Do not undertake activity until all precautions are in place.)</i>	(m) Risk Rating			(n) Precaution in place? (Yes or No)
		L	M	H	
Trip/falls/slipping in Garden	<ul style="list-style-type: none"> See Education 005 – 2.0 Slips trips and falls. Children must be adequately supervised by accompanying adults and instructed to walk in the garden. RHS Education Officer to highlight this in Housekeeping and H&S at the beginning of the visit. 	x			YES
Touching and handling plants, soil and compost.	<ul style="list-style-type: none"> See Education 005 – 2.0 Hazardous plants. Pupils must be warned of prickly and stinging plants in woods and to avoid. Accompanying staff must be aware of any children with specific plant allergies or hay fever, and carry the necessary medication. Children must wash their hands before eating. Children must not pick plants, only adults can under the direction of the Education Officer. 	x			YES
Bees, wasps and insect stings	<ul style="list-style-type: none"> See Education 005 – 2.0 Insect bites and stings. School staff must be aware of any in their group who have specific insect allergies and know how to deal with such emergencies. RHS Education Officer to highlight this in Housekeeping and H&S at the beginning of the visit. 		x		YES

KEY: L = Low Risk (Risk of minor injury or minor ill health issue); M = Medium Risk (Risk of injury or ill health causing 4 days or more off work); H = High Risk (Risk of death or major injury/ill health)



RHS Risk Assessment - Form D1
SAFETY DATA SHEET
according to 1907/2006/EC, Article 31
Soil Indicator Solution

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name	Soil Indicator Solution		
Company	BRECKLAND SCIENTIFIC SUPPLIES LTD		
	11-13 Brunel Way, Thetford, Norfolk. IP24 1HP		<i>enquiries@brecklandscientific.co.uk</i>
Telephone	01842 766203	Fax	01842 753188
Product code	0001635		

2. HAZARDS IDENTIFICATION

Main hazards No Significant Hazard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	Conc.	CAS	EINECS	Symbols/Risk phrases
Isopropanol (Propan-2-ol)	1-10 %	67-63-0	200-661-7	F; R11 Xi; R36 R67

4. FIRST AID MEASURES

Skin contact	Wash with soap and water.
Eye contact	Flush eyes with water as a precaution.
Inhalation	Move the exposed person to fresh air. If breathing stops, provide artificial respiration.
Ingestion	Rinse mouth thoroughly. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate to the surrounding fire conditions.
Protective equipment	Wear suitable respiratory equipment when necessary.

4. FIRST AID MEASURES

Personal precautions	Avoid raising dust.
Environmental precautions	Do not allow product to enter drains.
Clean up methods	Sweep up. Transfer to suitable, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling	Provide appropriate exhaust ventilation at places where dust is formed.
Storage	Store in a cool, dry area. Moisture Sensitive. Hygroscopic.

Soil Indicator Solution

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Isopropanol
(Propan-2-ol)WEL 8-hr limit ppm: 400
WEL 8-hr limit mg/m³: 999WEL 15 min limit ppm: 500
WEL 15 min limit mg/m³: 1250

Respiratory protection:

Not normally required.

Hand protection:

Wash hands after handling the product.

Eye protection:

Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description:

Liquid.

Colour: Green.

Odour :Mild.

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

10. STABILITY AND 11. TOXICOLOGICAL INFORMATION

Toxicological information

No data is available on this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data is available on this product.

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

ADR/RID

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. REGULATORY INFORMATION

Risk phrases

No Significant Hazard.

16. OTHER INFORMATION

Text of risk phrases in Section 3

R11 - Highly flammable.

R36 - Irritating to eyes.

R67 - Vapours may cause drowsiness and dizziness.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Revision

This document differs from the previous version in the following areas:

10 - stability.

**SAFETY DATA SHEET**

according to 1907/2006/EC, Article 31

Barium Sulphate**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY**

Product name	Soil Indicator Solution		
Company	BRECKLAND SCIENTIFIC SUPPLIES LTD		
	11-13 Brunel Way, Thetford, Norfolk. IP24 1HP		<i>enquiries@brecklandscientific.co.uk</i>
Telephone	01842 766203	Fax	01842 753188
Product code	0002023		

2. HAZARDS IDENTIFICATION

Main hazards	No Significant Hazard.
--------------	------------------------

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	Conc.	CAS	EINECS	Symbols/Risk phrases
Barium Sulphate (Barium sulphate respirable dust)	90 - 100 %	7727-43-7	231-784-4	

4. FIRST AID MEASURES

Skin contact	Wash with soap and water.
Eye contact	Flush eyes with water as a precaution.
Inhalation	Move the exposed person to fresh air. If breathing stops, provide artificial respiration.
Ingestion	Rinse mouth thoroughly. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate to the surrounding fire conditions.
Protective equipment	Wear suitable respiratory equipment when necessary.

4. FIRST AID MEASURES

Personal precautions	Avoid raising dust.
Environmental precautions	Do not allow product to enter drains.
Clean up methods	Sweep up. Transfer to suitable, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling	Provide appropriate exhaust ventilation at places where dust is formed.
Storage	Store in a cool, dry area. Moisture Sensitive. Hygroscopic.

Barium Sulphate

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Barium Sulphate	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m ³ : 4
(Barium sulphate respirable dust)	WEL 15 min limit ppm:-	WEL 15 min limit mg/m ³ : -

Barium Sulphate	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m ³ : 10
(Barium sulphate respirable dust)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m ³ : -

Respiratory protection: Not normally required.

Eye protection: Safety glasses.

Hand protection: Wash hands after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description:	Powder	Colour: White.	Boiling Point: 1600°C.	Melting Point: 1580°C.
---------------------	--------	-----------------------	-------------------------------	-------------------------------

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. Sulphur oxides. Barium Oxide.

10. STABILITY AND 11. TOXICOLOGICAL INFORMATION

Toxicological information No data is available on this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data is available on this product.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging Do NOT reuse empty containers.

14. TRANSPORT INFORMATION

ADR/RID Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

15. REGULATORY INFORMATION

Risk phrases No Significant Hazard.

16. OTHER INFORMATION

Further information The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.