



MATERIAL SAFETY DATA SHEET

DEEP ROOT TREE STUMP & WEED KILLER

1 Identification of Substance and Supplier

Product Name: Deep Root Tree Stump & Weed Killer
Supplier: William Sinclair Horticulture Limited
Firth Road
Lincoln LN6 7AH
Tel: (01522) 537561
Fax: (01522) 513609

2 Composition/Ingredients

Description: Glyphosate
Synonyms: Glyphosate (ammonium salt)
CAS NO: 10714-83-6

3 Hazards

May cause some skin and/or eye irritation if exposure is prolonged and/or repeated.

4 First Aid Measures

Eye Contact: Wash out eye with plenty of clean water. Seek medical advice if discomfort persists.
Skin Contact: Remove contaminated clothing and wash skin with (soap and) water.
Oral: If any symptoms follow ingestion or inhalation, obtain medical advice.

5 Fire Fighting Measures

Governed by other materials present.
No special fire-fighting equipment or measure required.

6 Accidental Release Measure

Sweep up spillage and recover/recycle if possible.
Otherwise place in a fibre keg or paper sack and dispose as industrial waste.

7 Handling

Damp solid may be mildly corrosive and should be handled in plastic containers.

8 Storage

Keep containers well sealed and dry. This product may be deliquescent at a high humidity.

9 Exposure Controls and Personal Protection

Air contamination standard (OES) from EH 40/94 for ammonium sulphamate TWA (3hr) = 10mg/m³.
STELL (15 Min) = 20mg/m³.

Personal protection equipment is specified as follows

Respiratory protection: Have dust mask available in the event of dusty conditions (Type 3M:8500)
Hand Protection: Cloth (cotton) gloves.
Eye Protection: Safety goggles or face shield.
Head Protection: Safety helmet.

10 Physical and Chemical Properties

Form: Crystalline solid
Colour: Colourless
Odour: Odourless.
Changes in physical state: Melting point at 131°C with decomposition above 160°C to non-flammable gas.
Density: 1.28 g/cm³ at 25°C (packed)
Bulk Density: 1.026 g/cm³ at 25°C (poured)
Vapour Pressure: Not relevant
Viscosity: Not relevant
Solubility: 225 gm/100ml water at 25°C, 280gm/100ml at 40°C
PH: 5.2 (5% solution)
Flash point: Not relevant
Ignition temperature: Does not burn or help other materials to burn.
Explosion limits: Not relevant.

11 Stability and Reactivity

Thermal decomposition: Decomposes above 160°C giving off oxides of sulphur.
Hazardous thermal decomposition products: Sulphur oxides and ammonia.
Hazardous reactions: Attacks weeds and trees. Not retained in the environmental chain.
Further information: Strongly acidic concentrated solutions should not be heated in closed or poorly vented vessels as exothermic hydrolysis could generate sufficient steam to cause container rupture. There is no danger of runaway hydrolysis at temperatures obtainable at atmospheric pressure.

12 Toxicological Information

LD₅₀ oral rats 3900 mg/kg (Russian Journal of Hygiene, Vol 7 No 5 1963 pages 56-57) LD₅₀ dermal (43% soln.) Rabbits > 2000 mg/kg (EPA report April 1981).

Eye irritation tests conducted with 43% soln. On 6 rabbits indicated only one slight conjunctival irritation after 72 hrs and by 7 days all eyes were normal. (EPA report April 1981)

13 Ecological Information

Maybe toxic to certain fish and therefore should not normally be discharged in solid or solution form to water courses.

Aquatic invertebrates not affected at very high levels. (LC₅₀ phantom midge = 6096 ppm @ 15°C, but plant (aquatic) growth reduction experienced above levels of 1000 ppm, short retention time in environmental chain.

14 Disposal Considerations

Recover for reuse or salvage as much as possible. Transfer residue to plastic (polythene) containers for temporary storage on site. Utilise storage area away from roots, trees or plants on level ground away from drains and watercourses.

Seek guidance from the Local Waste Authority or contact Growing Success for guidance on the disposal route.

15 Transport Information

Not classified as a substance hazardous for transport.

16 Regulatory Information

Label according to Directives 67/548/EEC and 88/379/EEC and CHIP 2 (1994): Not classified as a substance hazardous for supply.

17 Other Information

Used as a non-selective weed killer and flame retardant agent.

Published information includes:

Waste Management: The Duty of Care COP' HMSO 1991 ISBN

Storage of Packed Dangerous Substances HS (b) 71, HMSO 92 ISBN 0118858897

Ventilation of the Workplace HSE Guidance Note EH22 HMSO '92 ISBN 0118854038

Manual Handling guidance of Regulations L23 HMSO '92 ISBN 0118863355

General methods for the gravimetric determination of respirable and total inhalable dust' HSE guidance Note MDHS 14, HMSO 1993 IBM 011882046x.

This safety data sheet provides health and safety information. The product is to be used in a way consistent with best horticultural practice as stated on packaging. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct at the date of publication. William Sinclair Horticulture Limited disclaims any liability for any loss or damage resulting from reliance on this information.

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