

MATERIAL SAFETY DATA SHEET

December 2006

Revision date 12

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product Information

Trade name :
Tonic[®]

Uncle Tom's Rose

Company : FarmFos Limited
Builth Farm
Eau Withington
HEREFORD
HR1 3NQ

Telephone : +44 (0) 1432 851822
Fax : +44 (0) 1432 851829
Emergency contacts : as above

2. COMPOSITION / INFORMATION ON INGREDIENTS

Information on ingredients

• **AQUEOUS POTASSIUM PHOSPHITE SALTS** : mono-potassium phosphonate CAS No:
13977-65-6 : di-potassium phosphonate
CAS No: 13495-26-7

(in equal quantities)
potassium phosphonate

3. HAZARDS IDENTIFICATION

This is a non-volatile aqueous fertiliser product.
It can react with strong oxidising agents.
May cause irritation to eye, mouth and upper digestive tract.

4. FIRST AID MEASURES

Eye contact
immediately.

Mild irritant to eyes. Rinse with plenty of water

Skin contact
Ingestion

Seek medical advice if necessary.
Mild irritant to skin. Wash off with plenty of water.
Do not induce vomiting. Drink plenty of water.

5. FIRE-FIGHTING MEASURES

The product is not combustible. Extinguishing media to be governed by other materials present in the surroundings.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Contain spilled liquid with sand or earth to prevent run-off or release to water courses. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Safe handling advice bottle caps.	Take necessary cautions when lifting cases and opening
Protection against fire and explosion	No special precautions required.
Storage	Store under ambient conditions and out of direct sunlight. Ensure label on bottle remains intact and legible. Isolate from oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Personal protective equipment

Respiratory protection	Not applicable
Hand protection	
Recommendation	Use suitable protective gloves
Glove material	butyl-rubber, PVC, Natural rubber (NR), Polychloroprene with natural-latex liner.
Material thickness	0.5 mm
Break through time	> 480 min
Method	DIN EN 374
Glove material	nitrile rubber, fluorinated rubber
Material thickness	0.35 - 0.4 mm
Break through time	> 480 min
Method	Source: KCL GmbH
Eye protection	Safety goggles.
Hygiene measures	Do not wear contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	aqueous solution
Colour	colourless
Odour	none

Safety data

pH	6.5 at 20°C
Thermal decomposition	above 200°C
Flash Point	non-combustible
Freezing point	minus 22°C
Vapour pressure	less than 20mm Hg at 20°C
Ignition temperature	not applicable
Density	1.35 g/cm ³ (20 °C)
Water solubility	infinitely soluble in water

10. STABILITY AND REACTIVITY

Thermal decomposition	Above 200°C releases flammable hydrogen gas.
Hazardous reactions	Strong reducing agent. Reacts with oxidising agents.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat: > 2,000 mg/kg
Skin irritation (OECD 404)	Non irritant (index 0)
Eye irritation (OECD 405)	Non irritant (max group score 2.7)

12. ECOLOGICAL INFORMATION

No specific data available. Considered by the US EPA to be GRAS (Generally Regarded As Safe). In the aqueous environment it is expected to oxidise to inorganic potash and phosphate, plant nutrients.

13. DISPOSAL CONSIDERATIONS

Product landfill site.	With respect to local regulations, e.g. deposit in a suitable A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. In agreement with the waste code must be determined regional waste disposal authority or company.
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14. TRANSPORT INFORMATION

Transport/further information	Not classified as dangerous for purpose of air, road, rail or sea transport regulations.
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15. REGULATORY INFORMATION

Labelling according to EEC Directive 67/548/EEC.	Not subject to labelling provisions by Directive
National legislation	

16. OTHER INFORMATION

Risk phrases	No R- or S- risk phrases required.
Further information	Keep out of reach of children. Uncle Tom's Rose Tonic® is an aqueous fertiliser salt containing potassium phosphite intended solely for use as a plant nutrient, and should not be used for any other purpose.

This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and

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