

PRODUCT SAFETY DATA SHEET

XTEND SOLUBLE 46-0-0
Horticulture and Amenity Fertiliser

1. Marketed by:

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2. Composition:

THIS PREPARATION IS NOT CLASSIFIED AS DANGEROUS UNDER DIRECTIVE 2001/59/EC
Slow Release Fertilisers.

3. Hazards:

3.1 Classification of Preparation:

UNCLASSIFIED.

3.2 Primary Hazards

NONE

4. First Aid Measures:

Eyes:	Irrigate with copious amounts of clean water for at least 10 minutes. Seek medical attention if irritation develops or persists.
Skin:	Rinse immediately with plenty of water. Seek medical attention if irritation persists.
Ingestion:	May cause irritation to the gastro-intestinal tract. DO NOT induce vomiting. Give water or milk. If patient feels unwell seek medical attention.
Inhalation:	Remove from source of exposure into fresh air. Seek medical attention if irritation develops or persists or breathing becomes difficult.
Notes to Physician:	On inhalation of decomposition products: Risk of pulmonary oedema. Symptoms can appear later. Danger of methaemoglobin formation.
Treatment:	Treat according to symptoms (decontamination, vital functions), treat with tolunium chloride to reverse methaemoglobin.

5. Fire Fighting Measures:

5.1 Suitable Extinguishing Media

As appropriate for surrounding fire.

5.2 Unsuitable Extinguishing Media

None known.

5.3 Special Hazards, Combustion or By-Products

At temperatures above 130oC. Dangerous decomposition gases can be emitted: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia.

5.4 Protective Clothing for Fire Fighting

Suitable protective clothing and breathing apparatus.

6. Accidental Release (Spillage):

6.1 Personal Precautions

Prevent contact with skin or eyes; use coveralls and protective gloves, with eye protection as necessary.

6.2 Environmental Precautions

DO NOT wash excessive spillages into water courses. If this product enters water course or sewer (including via contaminated soil and vegetation), contact local agency and/or police immediately. DO NOT burn.

6.3 Clean & Disposal Methods

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

7. Storage and Handling:

7.1 Practical Precautions and Engineering Controls for Safe Handling

Long term storage at temperatures above 100oC (36oF) can result in significant decomposition of the N-(n-butyl)-thiophosphoric triamide. Open container with care to avoid generating dust. The product is incombustible. Keep away from heat and sources of ignition. Keep away from combustible material.

7.2 Conditions and Quantity Limits for Safe Storage

Store in a cool, dry atmosphere in original, labelled containers.
DO NOT store in metal or alloy packaging.
Refer to manufacturer for maximum safe stacking height.
No storage quantity limits.

8. Personal Protection:

8.1 Exposure Limit Values

Not classified.

8.2 Occupational Exposure Controls

Ensure suitable engineering controls for measuring and decanting of product prior to dilution.

8.3 Personal Protective Equipment

Primary Hazard considered as handling of concentrate.
Breathing apparatus only if dust is formed, particle filter EN143 Type P1, low efficiency (Solid particles of inert substances).
Gloves: BS EN374 - chemical protection : Physical barrier protection only..
Eye protection: goggles/face shield to BS EN166.

9. Physical and Chemical Properties:

9.01 Appearance:	Blue-green and white micro-granules
9.02 Odour:	Mild, slightly sulphurous
9.03 pH:	Approximately 6.5 at 100g/l (20oC)
9.04 Boiling Point / Range:	Decomposes at approximately 130oC
9.05 Flash Point / Flammability:	Not classified as flammable
9.06 Explosive Properties:	Not classified as explosive
9.07 Oxidising Properties:	Not classified as oxidizing
9.08 Vapour Pressure:	Not applicable
9.09 Relative Density:	Approximately 0.76g/ml
9.10 Solubility:	Readily soluble in water. Maximum solubility 300g/l @ 20oC
9.11 Partition Coefficient:	Not applicable
9.12 Viscosity:	Not applicable
9.13 Vapour Density:	Not applicable
9.14 Evaporation Rate:	Not applicable

10. Stability and Reactivity:

- 10.1 Materials to Avoid:**
Incompatible with acids, strong oxidising agents and reducing agents.
- 10.2 Conditions to avoid:**
DO NOT overheat. Thermal decomposition takes place at 130oC.
- 10.3 Hazardous Decomposition Products:**
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia.

11. Toxicological Information:	
Potential chronic Health Effects:	This preparation has not been assessed for this end point.
12. Environmental Protection:	
12.1 Ecotoxicity No specific data available.	
12.2 Mobility No specific data available.	
12.3 Persistence and Degradability No specific data available.	
12.4 Bio Accumulative Potential This product is not considered to bio accumulate.	
13. Disposal of Unwanted Product and Used Containers:	
13.1 Disposal of Used Preparation: Dispose in accordance with local regulations via specialised waste contractor.	
13.2 Disposal of Packaging: Use specialist.	
14. Transport Information:	
Road Transport Class:	ADR/RID
Sea:	IMDG
Air:	ICAO/IATA
	Not regulated for carriage
15. Regulatory Information:	
Risk Symbol:	This preparation is classified and labelled in accordance with regulation 2001/59/EC and the fertiliser Regulations 1991. In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3), the product is not classified.



16. Other Information:

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.