

# MATERIAL SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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<b>Trade Name</b>	Nutri-Phite PGA
<b>Chemical Name/Class</b>	Inorganic Salt Mixture
<b>Product Number</b>	3-26-7
<b>Product Use</b>	Fertilizer
<b>Manufacturer/Supplier</b>	PlantSyence Ltd
<b>Address</b>	Keepers Cottage Brind East Yorks DN14 7LA
<b>Emergency Telephone Number</b>	CHEMTREC: 1-800-424-9300
<b>Business Phone:</b>	0(0 44) 1430 431810
<b>Fax Number</b>	0(0 44) 1430 431820

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Component Name	CAS No	Conc %w/w	Symbol & R Phrases
Potassium Phosphite	13492-26-7	>10	Xn R22, Xi R36/37
Ammonium Phosphite	13446-12-3	>10	Xn R22, Xi R36/37
Potassium Citrate	00866-84-2	>1	Xn R22, Xi R36/37
Sodium Phosphite	13933-52-3	>5	Xn R22, Xi R36/37
Zinc Ammonium EDTA	67859-51-2	>1	Xn R22, Xi R36/37/38
Manganese Ammonium EDTA	68015-77-0	>1	Xn R22, Xi R36/37/38

The full text for all R-phrases are shown in Section 16

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## 3. HAZARDS IDENTIFICATION

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<b>Health</b>	Harmful if swallowed Irritating to eyes and skin Irritating to mucosal membranes if inhaled
<b>Environmental</b>	None.
<b>Physico-Chemical</b>	None

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**4. FIRST-AID MEASURES**

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<b>Eye Contact</b>	If this product enters the eyes, open the contaminated individual's eyes while under gentle running water. Use sufficient force to open eyelids. Have the contaminated individual "roll" eyes. Minimum flushing is for 15 minutes.
<b>Skin Contact</b>	If the product contaminates the skin, decontaminate the affected area with running water. The minimum recommended flushing time is at least 15 minutes, especially if adverse skin reactions occur. If necessary, remove exposed or contaminated clothing, taking care not to contaminate eyes.
<b>Inhalation</b>	If mists or sprays of this product are inhaled, remove the contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers.
<b>Ingestion</b>	If product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTRE FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Victim should drink milk, egg whites, or large quantities of water. Never induce vomiting or give diluents (milk or water) to someone who <u>is unconscious, having convulsions or unable to swallow.</u>

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**5. FIRE-FIGHTING MEASURES**

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<b>Extinguishing Media</b>	Water spray, foam, carbon dioxide or dry powder
<b>Unsuitable Extinguishing Media</b>	Water Jets
<b>Special Exposure Hazards</b>	When involved in a fire and exposed to extremely high temperatures, the components of this product will decompose to produce irritating vapours and toxic gases (e.g.: phosphorous oxides, phosphine, carbon monoxide and carbon dioxide.)
<b>PPE for Fire Fighting</b>	Do not breathe fumes. Wear self-contained breathing apparatus and eye/face protection.
<b>Fire Fighting Guidance</b>	If possible and without risk, remove unopened containers from exposure to fire. Otherwise, spray unopened containers

with water to keep cool. Do not let fire-fighting water contaminate drains or watercourses.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions</b>	Avoid contact with spilled material or contaminated surfaces. Wear protective clothing as described in Section 8. Whilst dealing with the spillage do not eat, drink or smoke.
<b>Environmental Precautions</b>	Keep people and animals away. Prevent entry into drains , sewers and watercourses (inform the Environmental Agency if this occurs)
<b>Spillages</b>	Contain/absorb spillage in sand/earth or in a suitable inert material. Collect using a non-sparking shovel and place in a plastic/steel drum in a well-ventilated place for subsequent safe disposal (see Section 13).

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## 7. HANDLING AND STORAGE

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<b>Handling</b>	No specific precautions when handling unopened containers; follow any manual handling guidance. Refer to Section 8 if exposure to product is possible. Wash thoroughly with soap and water after handling and before eating, drinking or smoking.
<b>Storage</b>	Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see section 10 – stability and reactivity). Keep container tightly closed when not in use.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Engineering Controls</b>	Wherever possible exposure to mists/sprays should be eliminated or minimised using appropriate engineering controls such as physical containment and good ventilation. Eyewash stations/safety showers should be nearby use areas.
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**Occupational Exposure Standard:** None Known

<b>Respiratory Protection</b>	Normally not required but ensure good ventilation.
<b>Body Protection</b>	Wear chemical resistant non-absorbent overalls.
<b>Hand Protection</b>	Wear chemical resistant nitrile gloves and change regularly.
<b>Eye Protection</b>	Wear goggles with side protection or visor.

- Note (1) Some of the protective equipment may be inappropriate when very small quantities are involved – obtain expert advice before disregarding.
- Note (2) Refer also to any COSHH assessment made for this material.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical State</b>	Solution	<b>Boiling Range/Point (°C)</b>	> 230° F
<b>Colour</b>	Water Clear	<b>Melting Point (°F)</b>	N/A
<b>Odour</b>	Faint	<b>Flash Point (°C)</b>	N/A
<b>PH (10% solution)</b>	6.3	<b>Solubility in Water:</b>	Complete
<b>Density (gr/cc)</b>	1.38		

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## 10. STABILITY AND REACTIVITY

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<b>Stability</b>	Stable in normal conditions.
<b>Decomposition Products</b>	When exposed to extremely high temperatures, the components of this product will decompose to produce irritating vapours and toxic gases (e.g.: phosphorous oxides, phosphine, carbon monoxide and carbon dioxide.)
<b>Conditions to Avoid</b>	Exposure to extreme temperatures and incompatible materials.
<b>Materials to Avoid</b>	Strong bases, strong oxidisers and strong reducers.

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## 11. TOXICOLOGICAL INFORMATION

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- **ACUTE TOXICITY**

<b>Inhalation</b>	May cause slight irritation to upper respiratory tract.
<b>Skin and Eye Contact</b>	Irritating to eyes and skin
<b>Ingestion.</b>	Harmful if swallowed

- **CHRONIC TOXICITY**

<b>Carcinogenicity</b>	No
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<b>Mutagenicity</b>	No
<b>Reprotoxicity</b>	No

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**12. ECOLOGICAL INFORMATION**

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**Degradability** No Data Available

**Bio-accumulation** No Data Available

**Aquatic Toxicity** No Data Available

**Effect of Material on Plants or Animals** This product is a fertilizer. Releases of large quantities into an area can substantially alter the nutrient composition and affect terrestrial plant life.

**Effect of Chemical on Aquatic Life** This product is a fertilizer. Releases of large quantities into a body of water can substantially alter the nutrient composition and affect aquatic plant and animal life.

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**13. DISPOSAL CONSIDERATIONS**

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**Product Disposal** Dispose of at a licensed waste disposal site capable of accepting chemical waste in compliance with local regulations, if re-use is not possible.

**Container Disposal** If recycling is not practicable, dispose of in compliance with the European Waste Catalogue. Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Ensure conformance with local and national regulations.

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**14. TRANSPORT INFORMATION**

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**ADR/RID** Not classified as dangerous for transport.

**CDG-CPL** Not classified as dangerous for transport.

**IMDG/IMO** Not classified as dangerous for transport.

**IATA/ICAO** Not classified as dangerous for transport.

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**15. REGULATORY INFORMATION**

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<b>Hazard Symbols</b>	Xn Harmful	
<b>Designated Name</b>	Nutri-Phite PGA	
<b>Risk Phrases</b>	R22	Harmful if swallowed
	R36	Irritating to eyes
	R37	Irritating to skin
	R38	Irritating to respiratory system
<b>Safety Phrases</b>	S2	Keep out of the reach of children
	S23	Do not breathe vapour
	S24/25	Avoid contact with skin and eyes
	S26	In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
	S28	Avoid contact with skin, wash immediately with plenty of soap and water
	S46	If swallowed seek medical advice immediately and show this container or label
<b>UK Regulatory References:</b>	Prepared in accordance with the Chemicals (Hazard Information & Packaging for Supply) Regulation 2002 (CHIP 3)	

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**16. OTHER INFORMATION**

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**Date this safety data sheet officially generated** 16/05/2005  
**Date this version generated**  
**Revision(s)**

<b>R-Phrases (Full Text):</b>	R22	Harmful if swallowed
	R36	Irritating to eyes
	R37	Irritating to skin
	R38	Irritating to respiratory system

**DISCLAIMER:**

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 PROCESS. SUCH INFORMATION IS, TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO WARRANTY, GUARANTEE OR REPRESENTATION IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.