



Material Safety Data Sheet

12869 N. Via Vista Del Pasado, Oro Valley, AZ, 85755, USA • (520) 333-0898
www.hortitecusa.com

Product Name: Hortiroot
Product Number: 0003

Issue Date: 12-May-2004
Revise Date: 22-Nov-2013

SECTION I		CHEMICAL PRODUCT AND COMPANY	
Product Description	Protein Hydrolysate complex foliant fertilizer with Phosphorus		
Manufacture 's Name	Hortikem SA de CV		
Address	Niños Heroes 255 Sur Col Centro, Los Mochis , Sinaloa , Mexico		
Emergency Telephone Number	USA (520) 333-0898		
Telephone Number for Information	USA (520) 333-0898		
SECTION II		COMPOSITION / INFORMATION ON INGREDIENTS	
Chemical Name	CAS No	% W	TLV
Amino Acid Mix	N/E	10-20	N/E
Phosphoric Acid	7664-38-2	6-8	1-3mg/m ³ , TWA
SECTION III		HAZARDS IDENTIFICATION	
Ingestion:	Harmful if swallowed.		
Inhalation:	Low or non hazardous by this route.		
Eye contact:	Likely to cause considerable irritation and discomfort, slight or non chance of corneal injury		
Skyn Absortion:	Low or none in toxicity by this route, may cause irritation.		
Skin Contact:	No likely to cause any discomfort, prolonged exposure may cause irritation.		
Effects of overdose:	Ingestion can cause aggravation or corrosion of the digestive tract, can cause vomiting, it may produce abrasions on skin and eyes upon long time exposure.		
SECTION VI		FIRST AID MEASURES	
Eyes:	Flush eye with water for at least 10 minutes. If any discomfort persists obtain medical attention.		
Skin:	Wash skin thoroughly with water and soap . Remove contaminated clothing and wash before reuse. If discomfort appear, obtain medical attention.		
Ingestion:	Wash out mouth thoroughly with water, give 2-3 glasses of milk to induce vomiting. Obtain medical attention.		
Inhalation:	Remove from exposure, rest and keep warm. In severe cases obtain medical attention.		
SECTION V		FIRE FIGHTING MEASURES	
Extinguishing Media:	Non Flammable, use media suitable to extinguish source of fire		
Special Fire Fighting Procedures:	Water spray, foam, dry chemical, or carbon dioxide, use breathing equipment.		

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SECTION VI ACCIDENTAL RELEASE MEASURES	
Environmental Precautions:	Keep out of water supplies. Do not contaminate water or sewer
Spills	Mop up with absorbent material and place in a disposal container. Dispose of in a manner according to local regulations.
SECTION VII HANDLING AND STORAGE	
Handling:	Wear protective clothing and wash areas of contact after handling.
Storage:	Store in a cool, dry place in original container. Do not leave product in open containers.
SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION	
Eyes and Face:	Wear appropriate clothing and eye protection.
Respiratory:	Fine dust respirator to standard R95 or equivalent.
Protective Clothing:	Wear appropriate clothing.
Work Hygienic Practices:	Good general ventilation should be sufficient to control airborne levels.
SECTION IX PHYSICAL AND CHEMICAL PROPERTIES	
Physical State:	Liquid
Odor:	Sweet
Appearance:	Liquid
Color:	Brown
pH:	3.0-3.5 (1 % in distilled water)
Boiling point:	239° F
Freezing Point:	-7° F
Melting Point:	Not available
Density:	1.110 - 1.120g/mL
Solubility:	100%
SECTION X STABILITY AND REACTIVITY	
Stability: (normal conditions)	Stable
Hazardous Polymerization	Will NOT occur
Hazardous Decomposition Products	Metal oxides and carbon dioxide are possible decomposition products.
SECTION XI TOXICOLOGICAL INFORMATION	
Target Organs	No target organs are known for this product.
Carcinogenicity	Not listed
General Comments	The suppliers of this product have no evidence to suggest that this product has carcinogenic properties or mutagenic or teratogenic effects.

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SECTION XII ECOLOGICAL INFORMATION	
General Comments	Quantitative data on the ecological effects of this product are not available. Care should be taken to avoid entry of ANY chemical product into natural watercourses. No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.
SECTION XIII DISPOSAL CONSIDERATIONS	
Disposal Considerations	Chemical residues are classified as special waste and as such are covered by local and/or federal regulations which vary in accordance to location. Contact your local waste disposal authority for advice or pass to a chemical disposal company.
SECTION XIV TRANSPORTATION INFORMATION	
Proper shipping name	Hortiroot
DOT hazard Class	Non-Regulated Material
Placard	N/A
SECTION XV REGULATORY INFORMATION	
General Comments	This product is not regulated by any known government agency as hazardous.
SECTION XVI OTHER INFORMATION	
Manufacture Disclaimer	<p>The information supplied on this sheet is to the best of our knowledge accurate at the time of preparation. It does not relieve the user of this product of any responsibility to comply with local, national, or international laws relating to the handling or use of this product.</p> <p>The suppliers do not accept responsibility for any claims resulting from the misuse of this product or failure to comply with the information stated within.</p>