






SAFETY DATA SHEET

Product	Personal Protection Elements
PROTERRA PS 2	 Gloves  Respiratory Protection  Safety goggles

SECTION 1. PRODUCT IDENTIFICATION	
GHS Product identifier	Protterra PS 2
Other means of identification	Does not have
Recommended use of the chemical and restrictions on use In the agricultural industry as fertilizer.	EMERGENCY PHONE NUMBER 24 HS (0291) 459-8188 - (0291) 459-8008 - Security (0291) 154-050419 – Safety Health (0291) 459-8196 – Medical Service
SUPPLIER Profertil S.A. Terminal San Nicolás, Prov. de Bs As – Argentina	DISTRIBUTOR Profertil S.A. Terminal San Nicolás, Provincia de Buenos Aires – Argentina

SECTION 2. HAZARD IDENTIFICATION							
Classification of the substance	Classification		Labeled				Hazard indication code
	Hazard class	Hazard category	Pictogram		Signal word	Hazard indication	
			GHS	Model Regulations of the UN			
	Corrosive	2A			Danger	Causes serious eye damage.	H318
Summary	The product is classified as dangerous according to Regulation (CE) 1272/2008 with the corresponding amendments, European Directive 67/548 / EEC and according to OSHA 29 CFR 1910.1200 HCS.						

SECTION 3. INFORMATION ON INGREDIENTS					
Composition:			Comercialization: granulated in bag and in bulk		
Common name	Synonyms of the Substance	CAS number	Chemical family	Formula	Composition (% by weight)
Calcium salt and orthophosphoric acid(2:1)	SPT	7758-23-8	Phosphates	$Ca(H_2PO_4)_2$	75% +/- 10%
Calcium sulfate	Calcium sulfate dihydrate	10101-41-4	Sulphates calcium salts	$CaSO_4 \cdot 2H_2O$	25% +/- 10%

SECTION 4. FIRST-AID MEASURES	
Contact with eyes	IF IN EYES: Rinse cautiously with water for not less than 15 minutes. Remove contact lenses, when present and can be done easily. Continue rinsing. Call a TOXICOLOGICAL INFORMATION CENTER or a doctor immediately.
Contact with skin	Contact with dust may cause skin irritation, so wash the contaminated area with soap and water. If irritation persists seek medical attention. Remove and wash contaminated clothing and shoes.



Inhalation	Breathing the dust in suspension can cause irritation to the mucous membranes and upper respiratory tract, so the exposed person must be moved to a place where they can breathe uncontaminated air and keep it at rest in a comfortable position. Request medical attention.
Ingestion	Rinse mouth with water. Request medical attention in case of discomfort. Do not induce vomiting unless directed by medical personnel.
SECTION 5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Water spray, foam, chemical powder, CO ₂ . Do not use direct water jet.
Specific hazards arising from the chemical	It is not combustible. Its thermal decomposition can produce phosphorus oxides (PO _x) and water.
Special protective actions for fire-fighters	In case of fumes or gases, those responsible for controlling the fire must use Autonomous Breathing Equipment. Collect the water used in fire fighting for later reuse or treatment.
SECTION 6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Avoid all contact with the eyes and skin and respiratory system. Use the corresponding PPEs. In case of dust generation, ventilation should be provided that allows compliance with occupational exposure limits. Otherwise, the use of a mask should be indicated.
Environmental precautions	Prevent spills from entering drains, surface water courses, groundwater, etc. Avoid the generation of dust.
Methods and materials for containment and cleaning up	Stay with your back to the wind. Absorb and/or contain the spill with inert material and place in a suitable container. Spilled material can be slippery. If the product is contaminated with soil it can be reused as fertilizer. To do this, you must collect the spilled material with mechanical means (manual and/or mechanical shovels, industrial vacuum cleaners, etc.). Do not use water. In case of precipitation, avoid entering water bodies and cover the product with impermeable material until the end of said meteorological condition. Water with recovered fertilizer can be reused as such.
SECTION 7. HANDLING AND STORAGE	
Precautions for safe handling	Avoid the generation of dust. Avoid spills into water. Use adequate ventilation to maintain exposure within the allowed limits. Prevent handling with incompatible substances. Prohibited to eat, drink or smoke in work areas. Wash your hands after handling the products. Take off contaminated clothing and PPEs before entering the dining rooms.
Conditions for safe storage	Store in dry, temperate and adequately ventilated areas (if necessary using appropriate technical controls), to keep particulate material concentrations below the exposure limits. Avoid contact with incompatible substances.
SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION	
Control parameters	There are no specific occupational exposure limits. ACGIH TLV-TWA/Res. MTEySS No. 295/03: Particles (insoluble) not otherwise specified 10 mg/m ³ in 8 hours for inhalable particles and 3 mg/m ³ in 8 hours for breathable particles. OSHA PEL: Total powder: 15 mg/m ³ TWA (8 hours), Respirable fraction: 5 mg/m ³ TWA (8 hours).
Appropriate engineering controls	Maintain airborne dust concentrations below occupational exposure limits. If necessary, local suction ventilation should be used.

Individual protection measures, personal protective equipment (PPEs)	To avoid contact with skin or eyes, wear long-sleeved clothing that protects the limbs and/or bodysuit, leather gloves, safety goggles. In the presence of high concentrations of dust in the environment, use PVC bodysuit, PVC gloves and approved respiratory protection.		
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	Physical State: Solid (Granulated) Colour: Light grey		
Odour	Not applicable	Vapour pressure	Not applicable
Odour threshold	Not applicable	Vapour density	Not applicable
pH (sol. in water)	4-5 (1% aqueous solution)	Solubility	Not available
Melting/Solidification Point	Not available	Partition coefficient: n-octanol/water	The product is soluble in water.
Initial boiling point and boiling range	Not applicable	Auto-ignition temperatura	Not applicable
Flash point	Not applicable	Decomposition temperatura	>1450 °C
Evaporation rate	Not applicable	Relative density	>2 (water = 1)
Flammability	Not applicable	Apparent density	Not available
Upper/lower flammability or explosive limits	Not applicable	Viscosity	Not available
SECTION 10. STABILITY AND REACTIVITY			
Chemical stability	The product is stable.		
Possibility of hazardous reactions	Slightly corrosive of steel, aluminum, zinc and copper.		
Conditions to be avoided	High temperatures and humidity.		
Incompatible materials	Strong bases, oxidizing materials.		
Productos de la descomposición peligrosos	Exposure to high temperatures produces toxic gases by thermal decomposition: phosphorus oxides (PO _x).		
Special Observations	Absorbs moisture from the air. It is hygroscopic. Slow hydrolysis can produce corrosive acids.		
SECTION 11. TOXICOLOGICAL INFORMATION			
Acute toxicity Skin corrosion/irritation	SPT: Ingestion/oral-Rat LD ₅₀ • 3986 mg/kg. Oral acute: DL ₅₀ : 5.000 to 6.000 mg/kg (sheep) Calcium Sulfate: Oral : LD ₅₀ : 1581 mg/kg x weight (rat) Inhalation LC ₅₀ (4hs) 3.26 mg/l air (rat) Skin Not available		
Serious eye damage	Contact with high concentrations of dust may cause skin irritation.		
Acute toxicity	SPT: eye-rabbit• Severe Irritation, reversible. • Serious eye damage. Category 1. OSHA 2012 HCS • Serious eye damage Category 1. EU/CLP		



Respiratory or skin sensitization	Contact with high concentrations of dust may cause irritation to the respiratory tract.
Germ cell mutagenicity	It is not listed as mutagenic.
Carcinogenicity	It is not listed as carcinogen.
Reproductive toxicity	It is not listed as toxic for reproduction.
Specific target organ toxicity – single exposure	It is not listed as toxic.
Specific target organ toxicity – repeated exposure	It is not listed as toxic.
Aspiration hazard	Not applicable, if the exposure limits of inhalable dust are not exceeded.
SECTION 12. ECOTOXICOLOGICAL INFORMATION	
Toxicity	SPT: Low toxicity in aquatic organisms. Acute: 96 hs CL ₅₀ : 1.560 – 5.900 mg/l (Fish) EC ₅₀ (72 hs): 1.790 - 1.825 mg/l (Daphnia)
	Calcium Sulfate: Fish (short lapse).CL50(4 days): 79 -2980 mg/l Invertebrates (short lapse) CL50(48 hs): 79 -1970 mg/l Algae and cyanobacterias EC50(72 hs): 79 mg/l Microorganisms EC50(3 hs): 1 g/l NOEC (3hs): 1g/l
Persistence and degradability	Quickly biodegradable. It is not persistent. The decomposition of the product in bodies of water promotes the growth of algae, increasing turbidity, decreasing oxygen concentration and preventing photosynthesis.
Bioaccumulative potential	Not available.
Mobility in soil	Not available
Other adverse effects	Not available.
SECTION 13. DISPOSAL CONSIDERATIONS	
Disposal methods	Recovery and reuse of the material whenever possible.
Manipulation	Place the material in containers suitable for use or disposal. The corresponding PPEs should be used. Discharge to surface water courses or groundwater should be avoided.
Treatment	Depending on the type of contamination, consult the Safety Health. In case of not being able to recover and / or reuse the material, treat it as a non-hazardous industrial waste.
SECTION 14. TRANSPORT INFORMATION	
International regulations	This product is not considered as dangerous according to the CNRT (Argentina), Mercosur Dangerous Goods Transportation Agreement [Acuerdo Sobre Transporte de Mercancías Peligrosas del Mercosur].
Special provisions for transport	Land and sea transport: General cargo



Environmental hazards	IMDG: Not regulated IMO: Not regulated ADN: Not regulated RID/ADR: Not regulated
UN Number	Not regulated as hazardous material
UN Proper Shipping Name	Not regulated as hazardous material
Hazard class(es) for transportation	Not regulated as hazardous material
Packing Group	Not regulated as hazardous material
SECTION 15. REGULATORY INFORMATION	
Other Regulations	Mercosur Dangerous Goods Transportation Agreement [Acuerdo Sobre Transporte de Mercancías Peligrosas del Mercosur] National Health and Safety Law No. 19587/72 National Traffic Law No. 24,449 National Hazardous Waste Law No. 24,051 Regulatory Decree No. 351/79 on Health and Safety Resolution 195/97 Technical Standards Res. MTySS 295/03 Chemical Pollutants SRT Resolution No. 801/15 GHS SRT Resolution No. 3359/15, Extension GHS GHS - Globally Harmonized System of Classification and Labeling of Chemicals. 5th Ed. Revised. United Nations, New York and Geneva, 2013. TOMES Plus®, Vol 28, January 1996 Micomedex Inc.
SECTION 16. OTHER INFORMACION	
Glossary	<p>GHS: Globally Harmonized System. ACGIH: American Conference of Governmental Industrial Hygienists. (USA) AIHA WEEL: Workplace Environmental Exposure Level of the American Industrial Hygiene Association (USA) Carcinogenic: It is said of the physical, chemical or biological agent that induces the development of cancer. Teratogenic: That generates malformations to the fetus. CAS: Chemical Abstract Service. CL50: Lethal Media Concentration. CNRT: National Commission for Transport Regulation DL₅₀: Mean Lethal Dose, CL₅₀: Lethal Media Concentration. EC₅₀: Concentration with effect in 50% of organisms. IARC: International Agency Research on Cancer Mutagenic: Substance or agent that permanently alters the DNA of cells.</p> <p>OECD: Organization for Cooperation and Development OSHA: Occupational Safety and Health Adm. (USA) Teratogenic: That generates malformations. PEL: Exposure Limit Allowed TLV: Threshold Limit Value TWA: Time weighted average. IATA: International Air Transport Association. IMDG: International Maritime Code of Dangerous Goods IMO: International Maritime Organization. DNA: European Agreement on the International Transport of Dangerous Goods in inland navigation. RID: Regulations for the International Transport of Dangerous Goods by Rail. ADR: "European Agreement on the International Carriage of Dangerous Goods by Road". CMP: Maximum permissible concentration.</p>
FOR MORE INFORMATION	CONTACT PROFERTIL SA
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Historial of Revision	Does not have.
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