






PROFERTIL

# SAFETY DATA SHEET

Product	Personal Protection Elements		
<b>POTASSIUM CHLORIDE (CIK)</b>	 Gloves	 Respiratory Protection	 Safety Goggles

SECTION 1. PRODUCT IDENTIFICATION	
<b>GHS Product identifier</b>	Potassium chloride
<b>Other means of identification</b>	Silvite, Potash
<b>Recommended use of the chemical and restrictions on use</b> In the agricultural industry as fertilizer.	<b>EMERGENCY PHONE NUMBER 24 HS</b> (0291) 459-8188 - (0291) 459-8008 – Security (0291) 154-050419 – Safety Health (0291) 459-8196 – Medical Service
<b>SUPPLIER</b> Profertil S.A. Planta de Fertilizantes, Puerto de Ing. White – Zona Cangrejales, Bahía Blanca, Argentina	<b>DISTRIBUTOR</b> Profertil S.A. Planta de Fertilizantes, Puerto de Ing. White – Zona Cangrejales, Bahía Blanca, Argentina

SECTION 2. HAZARD IDENTIFICATION							
Classification of the substance	Clasificación		Labeled				Hazard indication code
	Hazard class	Hazard category	Pictogram		Signal word	Hazard indication	
			GHS	Model Regulations of the UN			
	Does not apply						
<b>Summary</b>	Not classified as hazardous material according to Directive 92/32 / EEC. The product is not considered toxic to humans. It is not carcinogenic, mutagenic or teratogenic according to ACGIH, EPA, IARC, OSHA. Its decomposition can affect aquatic life. Contact with the powder of this product may cause irritation to the eyes, respiratory tract and skin.						

SECTION 3. INFORMATION ON INGREDIENTS					
<b>Composition:</b>		<b>Comercialization:</b> Granulated in bag and in bulk.			
Common name	Synonyms of the Substance	CAS number	Chemical family	Formula	Composition (% by weight)
Potassium chloride	Potassium muriate	7447-40-7	Inorganic salt	CIK	95 - 99.5
Sodium chloride	Common salt	7647-14-5	Inorganic salt	NaCl	0.5 - 5



<b>SECTION 4. FIRST-AID MEASURES</b>	
<b>Contact with eyes</b>	Contact with the dust may cause irritation to the eyes, so immediately rinse the eyes with plenty of water, at least for 15 minutes, keeping the eyelids open. Remove contact lenses when they are present and can be done easily. Continue with the washing. Request medical attention.
<b>Contact with skin</b>	It is not expected to present a significant danger to the skin under anticipated conditions of normal use. Brush the loose particles deposited on the skin. Wash carefully using abundant soap and water
<b>Inhalation</b>	In case of Inhalation and if breathing is difficult, transport the victim outdoors and keep them at rest in a position that facilitates breathing. Request medical attention if necessary.
<b>Ingestion</b>	It is not expected to present a significant ingestion hazard under anticipated conditions of normal use. Rinse mouth with water. In case of doubts consult medical personnel.
<b>SECTION 5. FIRE-FIGHTING MEASURES</b>	
<b>Suitable extinguishing media</b>	It is not combustible, Use means of extinction appropriate to the environment.
<b>Specific hazards arising from the chemical</b>	There are no specific fire and explosion hazards
<b>Special protective actions for fire-fighters</b>	In case of fumes or gases, those in charge of controlling the fire <u>should</u> use Autonomous Breathing Equipment and Structural Equipment for Firefighters.
<b>SECTION 6. ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal precautions, protective equipment and emergency procedures</b>	Avoid all contact with eyes and skin and respiratory system. Use the corresponding PPEs. In case of dust generation, ventilation <u>should</u> be provided to allow compliance with occupational exposure limits. Otherwise, the use of a mask should be indicated.
<b>Environmental precautions</b>	Prevent spills from entering drains, surface water courses, groundwater, etc. Avoid the generation of dust.
<b>Methods and materials for containment and cleaning up</b>	Stay against the wind. Collect spilled material with mechanical means (manual and / or mechanical shovels, industrial vacuum cleaners, etc.). Large spills: collect and deposit solid spills in closed containers. Minimize the production of dust.
<b>SECTION 7. HANDLING AND STORAGE</b>	
<b>Precautions for safe handling</b>	Avoid generation of dust and spillage into water. Use adequate ventilation to maintain exposure within the permitted limits. Prevent handling with incompatible substances. Forbidden to eat, drink or smoke in the work areas. Wash hands and face after each product manipulation and systematically before entering the dining rooms or leaving the workplace.
<b>Conditions for safe storage</b>	Store in dry, tempered and adequately ventilated areas (if necessary using appropriate technical controls), to keep particulate concentrations below the exposure limits. Avoid contact with incompatible substances. Do not store in corrosive metals: aluminum, carbon steel



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<b>SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION</b>			
<b>Control parameters</b>	There are no tables or limits of specific occupational exposure. ACGIH TLV-TWA / Res. MTEySS No. 295/03: Particles (insoluble) not otherwise specified (PNEOF) 10 mg / m <sup>3</sup> in 8 hours for inhalable particles and 3 mg / m <sup>3</sup> in 8 hours for respirable particles. OSHA PEL: Total powder: 15 mg / m <sup>3</sup> TWA (8 hours), Respirable fraction: 5 mg / m <sup>3</sup> TWA (8 hours).		
<b>Appropriate engineering controls</b>	Keep dust concentrations in air below occupational exposure limits. If possible apply general ventilation If necessary, local <u>exhaust</u> ventilation should be used.		
<b>Individual protection measures, personal protective equipment (PPEs)</b>	To avoid contact with skin or eyes, wear long-sleeved clothing that protects limbs and / or overalls, leather gloves and safety glasses. In case of high dispersions and dust concentrations, use waterproof romper, PVC gloves and approved respiratory protection for powders.		
<b>SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Appearance</b>	<b>Physical state:</b> Solid (Dry granulated fluid) <b>Colour:</b> white to reddish brown		
<b>Odour</b>	Odourless	<b>Vapour pressure</b>	Not available
<b>Odour threshold</b>	Not available	<b>Vapour density</b>	Not available
<b>pH (sol. in water)</b>	5% (5.4 - 10)	<b>Solubility</b>	Soluble en agua 99.5 - 99.99 %
<b>Punto de fusión / solidificación</b>	771 - 776 °C	<b>Partition coefficient: n-octanol/wáter</b>	Not available
<b>Initial boiling point and boiling range</b>	Not available	<b>Auto-ignition temperatura</b>	Not available
<b>Flash point</b>	Not applicable	<b>Decomposition temperatura</b>	Not available.
<b>Evaporation rate</b>	Not available	<b>Relative density</b>	1.984 - 2 water = 1
<b>Flammability</b>	Not flammable	<b>Apparent density</b>	990 - 1300 kg/m <sup>3</sup>
<b>Upper/lower flammability or explosive limits</b>	Not available	<b>Viscosity</b>	Not available.
<b>SECTION 10. STABILITY AND REACTIVITY</b>			
<b>Chemical stability</b>	The product is stable under normal conditions.		
<b>Possibility of hazardous reactions</b>	No dangerous polymerizations occur.		
<b>Conditions to be avoided</b>	Incompatible materials should be avoided.		
<b>Incompatible materials</b>	Incompatible with strong acids, boron trichloride, boron trifluoride, potassium dichromate, potassium permanganate, sulfuric acid.		
<b>Hazardous decomposition products</b>	No dangerous decomposition products are known.		
<b>Special Observations</b>	It can be corrosive to some metals.		

<b>SECTION 11. TOXICOLOGICAL INFORMATION</b>	
<b>Acute toxicity</b>	Not classified. Potassium chloride: DL <sub>50</sub> : 3020 mg/kg (oral rat) Sodium chloride: DL <sub>50</sub> : 3550 mg/kg (oral rat) DL <sub>50</sub> : > 10000 mg/kg (skin rat) CL <sub>50</sub> : > 42 mg/l/4h 1 hour (inhalation rat (mg/l)) CL <sub>50</sub> : 10.5 mg/l/4hour (inhalation rat (dust/vapour - mg/l/4 hour))
<b>Skin corrosion/irritation</b>	Unclassified.
<b>Serious eye damage/irritation</b>	Unclassified.
<b>Respiratory or skin sensitization</b>	Unclassified.
<b>Germ cell mutagenicity</b>	Unclassified.
<b>Carcinogenicity</b>	Unclassified.
<b>Reproductive toxicity</b>	Unclassified.
<b>Specific target organ toxicity – single exposure</b>	Unclassified.
<b>Specific target organ toxicity – repeated exposure</b>	Unclassified.
<b>Aspiration hazard</b>	Unclassified.
<b>SECTION 12. ECOTOXICOLOGICAL INFORMATION</b>	
<b>Toxicity</b>	Potassium chloride: CL50 (fish): 880 mg/l Pimephales promelas 96 hour CE50 (Daphnia): 40 - 880 48 hour ErC50 (algae): > 100 mg/l NOEC (chronic): 500 mg/l 7 day Sodium chloride: CL50 (fish): 5840 mg/l 96 hour; Lepomis macrochirus CE50 (Daphnia): 4136 mg/l 48 hour NOEC (acute): 1500 mg/l Daphnia; 7 day NOEC (chronic fish): 252 mg/l 33 day
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility in soil</b>	Potassium chloride: Ecology - soil - The components of the mixture are completely soluble in water. Distribution in the soil
<b>Results of ev. PBT and mPmB</b>	Potassium chloride: This substance / mixture does not meet the PBT or vPvB criteria in Annex III of the REACH Regulation
<b>Other adverse effects</b>	Not available.



<b>SECTION 13. DISPOSAL CONSIDERATIONS</b>	
<b>Disposal methods</b>	Recovery and reuse of the material whenever possible.
<b>Manipulation</b>	Place the material in suitable containers for use or disposal. The corresponding PPEs should be used. Adopt the necessary measures to avoid the accidental spillage of the product to the culverts or to the courses of water, in case of breakage of the containers or of the transfer systems.
<b>Treatment</b>	Depending on the type of contamination, consult the medical service. In case of not being able to recover and/or reuse the material, it should be treated as a non-hazardous industrial waste.
<b>SECTION 14. TRANSPORT INFORMATION</b>	
<b>International regulations</b>	This product is not classified as dangerous according to the CNRT (Argentina), Mercosur Dangerous Goods Transportation Agreement [Acuerdo Sobre Transporte de Mercancías Peligrosas del Mercosur].
<b>Special provisions for transport</b>	Land and sea transport: General cargo
<b>Environmental hazards</b>	IMDG: Not applicable. IMO: Not applicable. ADN: Not applicable. RID/ADR: Not applicable.
<b>UN Number</b>	Not regulated as a hazardous material
<b>UN Proper Shipping Name</b>	Not applicable.
<b>Hazard class(es) for transportation</b>	Not applicable.
<b>Packing Group</b>	Not applicable.
<b>SECTION 15. REGULATORY INFORMATION</b>	
<b>Other regulations</b>	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.

<b>SECTION 16. OTHER INFORMATION</b>	
<b>Glossary</b>	<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            DL<sub>50</sub>: Mean Lethal Dose,            CL<sub>50</sub>: Lethal Media Concentration.            EC<sub>50</sub>: 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 Co-operation and Development.            OSHA: Occupational Safety and Health Administration (USA)            EPA: Environmental Protection Agency (USA)            PEL: Permissible Exposure Limit.            TLV: Threshold Limit Value.            TWA: Time-weighted average.            CMP: Maximum allowable concentration.            IATA: International Air Transport Association.            IMDG: International Maritime Dangerous Goods (Code).            IMO: International Maritime Organization.            ADN: European Agreement on the International Transport of Dangerous Goods in Inland Navigation.            RID: Regulation of the International Transport of Dangerous Goods by Rail.            ADR: "European Agreement on the International Transport of Dangerous Goods by Road".</p>
<b>FOR MORE INFORMATION</b>	CONTACT PROFERTIL SA
<b>Date of the Last Revision</b>	Rev. N° 01 November 6th, 2017
<b>Historial of Revision</b>	Does not have.
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