
MATERIAL SAFETY DATA SHEET

BIFOX - 20

MSDS


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GHS / GHS United Nations



Section 1: PRODUCT AND SUPPLIER INFORMATION

Product Name:	BIFOX – 20
Other names:	Natural phosphate – Phosphorite.
Chemical formula:	Not applicable. Mineral blend.
Product GHS Identifier:	Not applicable.
Recommended Use:	Fertilizer – Plant Nutrient – Use in Agribusiness – Input for phosphorus-rich fertilizers.
Company Identification: Address:	Bifox Limited Level 7, 92 Pitt Street. Sydney, NSW 2000. Australia.
Production Plant: Address:	Fosfatos de Caldera SpA Route C-10 Las Salinas Km 6,800. Caldera, Bahía Inglesa. Atacama Region Chile.
Web:	www.bifox.com.au
Chemical Emergency Information Centre:	+56 2 2 247 3600 (CITUC Chile 24/7)
Toxicological Emergency Information Centre:	+56 2 2 635 3800 (CITUC Chile 24/7)

Section 2: HAZARD IDENTIFICATION

Hazard Classification:	Not dangerous.
Primary classification:	Not classified as dangerous goods according to NZS 5433:2012 Transport of dangerous goods.
Pictogram and word of warning:	 Attention. It can cause eye irritation. Code H320.
Incompatibility Matrix:	No.

Section 3: COMPONENT INFORMATION

PRODUCT BIFOX - 20			
DESCRIPTION: NATURAL PHOSPHATE FOR USES AS A DIRECT-APPLICATION FERTILIZER			
COMPOSITION AND PHYSICAL PROPERTIES			
Total Phosphate P ₂ O ₅	20 + / - 2%	MgO Magnesium	0,0095
Soluble Phosphate in ammonium citrate	5 - 7%	Sulphur S	0,012
Potassium K ₂ O	0,0084	Fe ₂ O ₃ Iron	0,023
Calcium CaO	0,3	Sodium Na ₂ O	0,022
Bulk Density	1,7 gr/cm ³	SiO ₂ silicon	0,32
Humidity	0,05	Copper Cu	30ppm
Powder presentation	95% under 100 mesh	Manganese Mn	126ppm
Heavy metals	As, Cd, Pb, Hg, Cr, Ni, Co, Se < 0,03%		
CAS number P ₂ O ₅ (Chemical Abstract Service)	1314-56-3		

AGRONOMIC PROPERTIES		
Reactivity in acidic soils	High to very high	
RAE (Relative Agronomic Efficiency) to soluble fertilizers	Ph < 6,0	> 90%
	ph < 6,5	80 - 90 %

Section 4: FIRST AID MEASURES

First Aid Measures:	Consult the CITUC Poison Information Center +56 2 2 247 3600 (Chile 24/7) or a doctor immediately in each case of suspected poisoning. www.cituc.uc.cl
Inhalation:	Remove the patient outdoors. Seek medical help if the effects persist.
Ingestion:	Never give anything through the mouth to an unconscious person. If swallowed, rinse your mouth. Seek medical advice.
Skin:	Wash the affected area well with soap and water.
Eyes:	Rinse with plenty of water for several minutes, keeping your eyelids open if necessary. Remove your contact lenses if you have them and it's easy to do. Seek medical advice.
Tips for the Doctor:	Symptomatic treatment.

Section 5: FIRE-FIGHTING MEASURES

Flash Point:	Non-flammable.
Combustion products:	No fuel.

Means of Extinguishing:	Based on the surrounding materials.
Protective equipment:	Breathing equipment, goggles and protective gloves. Additional according to surrounding materials.
UN Cartel ID Number:	Not assigned.

Section 6: MEASURES IN CASE OF ACCIDENTAL SPILLAGE

Spills and disposal:	Wear appropriate protective clothing. Sweep and contain the dust spill. Collect and place in containers and/or maxi bags. Avoid generating a lot of dust. Reuse or recycle whenever possible.
Type of personal protection:	Work coverall, protective glasses, respiratory protection for P100 / KN 95 dust and gloves.



Environment:	Avoid unintentionally releasing excessive amounts into waterways or sewers. It has no toxicity to aquatic animals, terrestrial animals and/or birds.
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Section 7: HANDLING AND STORAGE

Manipulation:	Avoid generating excessive dust and do not breathe in the dusts. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash their hands and faces with soap and water before eating, drinking, and smoking.
Certified Manipulator:	It is not required.
Tracking of the goods:	It is not required.
Storage:	Store in a cool, dry place.
Expiration:	Product does not expire over time.
Other information:	Avoid unintentional release into the environment.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limit	Not applicable.
Workplace Exposure Limit:	Not applicable.
Personal Protection Elements:	Coveralls, safety glasses and gloves. If dust is present, wear a P100 or KN95 dust mask.



Engineering Controls:	Handle the product in a well-ventilated area. If dust is generated. Avoid inhaling dust.
Hygiene Precautions:	Remove protective clothing and wash your hands and face before meals and after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical condition:	Dust
Colour:	Light Brown
Smell:	Odorless
Melting Point/Freezing Point:	Not applicable
Boiling Point:	Not applicable
Flammability:	Non-flammable
Lower and upper explosion limits:	Non-flammable
Flash Point:	Non-flammable
Spontaneous ignition temperature:	Non-flammable
Decomposition temperature:	Not applicable
PH:	6,0 – 6,5
Kinematic viscosity:	Not applicable
Solubility in water:	0,0037
N-octanol/water partition coefficient:	Not applicable
Vapor Pressure:	Not applicable
Density and/or relative density:	1,25
Relative vapour density:	Not applicable
Particle characteristics / granulometry:	>95 (% Taylor Mesh 100)
Humidity:	0,05
Other information:	No information

Section 10: REACTIVITY AND STABILITY

Reactivity:	Non-reactive.
Chemical stability:	Stable.
Possibility of dangerous reactions:	Not applicable.
Danger of Violent Polymerization:	It will not occur.
Product decomposition hazard:	No fuel.
Conditions to avoid:	Excess moisture in storage.
Incompatible materials:	None.

Section 11: TOXICOLOGICAL INFORMATION

ERMA classification:	Not dangerous.
Ingestion:	Ingestion of large amounts can cause nausea, vomiting, and thirst.
Inhalation:	Overexposure could cause irritation in the mucous membranes and cough.
Skin:	Prolonged and repeated exposure of the skin may cause skin irritation.
Eyes:	Direct contact can lead to tearing, pain, and redness.
Chronic effects:	Not foreseen.
Other information:	Low toxicity, no adverse health effects expected under normal conditions.

Section 12: ECOLOGICAL INFORMATION

ERNA classification:	Not dangerous.
Degradability:	Biodegradable.
Environmental effects:	There are no known significant effects or critical hazards.
Ecotoxicity:	It does not produce significant effects or critical hazards.

Section 13: DISPOSAL INFORMATION

Product Disposal:	Reuse or recycle whenever possible. Apply excess fertilizer at recommended rates in the right soil.
Disposal of the packaging:	You can reuse the packaging, it does not contain toxic elements. The disposal of the packaging as waste is of the non-hazardous inert type.

Section 14: TRANSPORT INFORMATION

UN number:	Unassigned, not dangerous.
Official UN Transport Designation:	Not applicable.
Transport Hazard Class:	None.
Packaging group, if applicable:	Not applicable.
Environmental hazards:	Not applicable.
Special precautions:	None.

Section 15: REGULATORY INFORMATION

Regulations:	Not applicable, not dangerous.
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Section 16: OTHER INFORMATION

The data in this MSDS refer only to the specific material designated therein and not to use in combination with any other material. The information is provided in good faith, based on current knowledge and experience.