

MSDS
SPRAY DRIED BOVINE HEMOGLOBIN
FEED PURPOSE

SECTION I			
PRODUCT INFORMATION & COMPANY IDENTIFICATION			
COMERCIAL NAME		VITALPRO	
COMMON NAME - GENERIC		HEMOGLOBINA BOVINA DESECADA	
COMPANY NAME		1- PROTEÍNAS NATURALES, S.A. 2- SCANBIOTEK S.R.L	
ADDRESS		1- Km 27carretera panamericana norte, Nicaragua 2- Km 37 carret. al norte ingreso a juan latino-SANTA CRUZ- BOLIVIA	
PHONE #	1- (+505) 7517 1200 2- (+591) 3707550	FAX #	--
SECTION II			
COMPOSITION AND HAZARDOUS INGREDIENTS			
COMMON OR GENERIC NAME OF THE HAZARDOUS COMPONENT (attach sheet if necessary)		%	CAS Nmbr.
it is not toxic		N/A	N/A
COMPOSITION			
BOVINE HEMOGLOBIN		100 %	
SECTION III			
FIRST AID MEASURES			
AFTER	MEASURE		
INHALATION	Supply fresh air		
SWALLOWING	Rinse out mouth water. Do not induce vomiting.		
EYE CONTACT	Do not rinse your eyes. Move the eyes under running water.		
SKIN CONTACT	None		
SECTION IV			
FIRST TIME ACUTE EXPOSITION			
EYE CONTACT	It may cause slight irritation if exposed to high concentrations of dust without proper protection		
SKIN CONTACT	It does not cause skin irritation.		
INHALATION	It may cause slight respiratory irritation and coughing, but only if high concentrations of dust are inhaled without proper respiratory protection		
SWALLOWING	It is not toxic		
RECOMMENDED ANTIDOTE	There is not a specific antidote. Treat the patient according to symptoms.		
MEDICAL INFORMATION	Bovine Hemoglobin it is not toxic.		

SECTION V	
FIRE FIGHTING MEASURES	
FLASH POINT	0
FLAMMABLE LIMIT (IF ANY)	None
EXTINGUISHING AGENTS	None
SPECIAL PROTECTIVE EQUIPMENT	None
HAZARDOUS COMBUSTION PRODUCTS	N/A
SECTION VI	
MEASURES IN CASE OF SPILLS OR LEAKS	
Bovine Hemoglobin must be collected with a broom and shovel. Use everyday cleaning equipment	
SECTION VII	
HANDLING AND STORAGE	
STORAGE TEMPERATURE	Room temperature
STORAGE CONDITIONS	This product should be stored in a cool, dry and no sun exposure. Stow on pallets at a minimum height of 15 cm from the floor, 50 cm from the wall to avoid moisture and breakage.
CONTAINER HANDLING	Keep the product in its original container, labeled and tightly closed.
EFFECTS OF EXPOSURE TO SUNLIGHT, HEAT, HUMIDITY ATMOSPHERES, AMONG OTHERS.	Keep in a dry place at room temperature. Decomposition temperature, heat of vaporization and corrosivity do not apply.
SECTION VIII	
EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT	
VENTILATION CONDITIONS	Suitable for the place of use
RESPIRATORY PROTECTIVE EQUIPMENT	Mask
EYE PROTECTION EQUIPMENT	Wear safety glasses
SKIN PROTECTIVE EQUIPMENT	None
EXPOSURE CONTROL DATA (TLV, PEL, STEL)	None

SECTION IX	
PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE AND ODOR	Characteristic odor, wine red powder
SPECIFIC GRAVITY	N/A
SOLUBILITY IN WATER AND OTHER SOLVENTS	>90 %
MELTING POINT	N/A
BOILING POINT	N/A
pH	7-8
STATE OF AGGREGATION TO 25°C AND 1 ATM	N/A
SECTION X	
STABILITY AND REACTIVITY	
ESTABILIDAD	Stable product under normal storage conditions
INCOMPATIBILITY	N/A
RISKS OF POLYMERIZATIO	Does not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	N/A
SECTION XI	
TOXICOLOGY INFORMATION	
ORAL MEAN LETHAL DOSE or DERMAL (LD50)	Not available. Non-Toxic product
AVERAGE LETHAL DOSE PER INHALATION (LC50)	Not available. Non-Toxic product
SECTION XII	
EFFECTS ON THE ECOLOGY	
It has no eco-toxicological risk effects on the environment. It is an organic and biodegradable product.	
SECTION XIII	
CONSIDERATIONS ON THE FINAL DISPOSAL OF THE PRODUCT	
It is a 100% organic and biodegradable product. It must be disposed of according to the current environmental legislation of the country. The packaging can be sent for recycling.	

SECTION XIV**TRANSPORT INFORMATION**

It does not present any restriction for its transport by air, sea or land. Transportation must guarantee hygiene and safety conditions.

SECTION XV**REGULATORY INFORMATION**

Laws and regulations for the registration and control of the production, manufacture, handling, storage, fractionation, distribution and use of animal by-products.

SECTION XVI**OTHER INFORMATION**

The Bovine Hemoglobin is a product obtained by fractionating bovine blood, collected and processed under strict hygiene standards. It is a 100% natural product. Hemoglobin is subjected to a dehydration process by Spray Dryer that guarantees the conservation of the bio-functional properties of the protein.