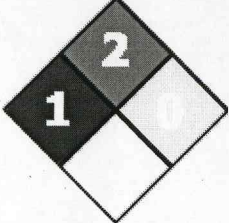



NFPA	Personal protective equipment	Transport Symbol
		Not regulated

Preparation Date 10-Oct-2007

Revision Date 08-Nov-2007

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Bovatec® 91
Product code 710121
Recommended use Veterinary medicine

Contact manufacturer

Alpharma Inc.,
 440 Route 22, Grand Commons
 Bridgewater, NJ 08807
 Phone: 908-566-3800/866-322-2525

Supplier

Alpharma Inc.,
 440 Route 22, Grand Commons
 Bridgewater, NJ 08807
 Phone: 908-566-3800/866-322-2525

Emergency telephone number 1-800-424-9300 (Chemtrec)

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes, respiratory system and skin. May be harmful if swallowed.

Physical state Powder

Odor None

Potential health effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

Acute Toxicity

Eyes Irritating to eyes.
Skin May cause skin irritation.
Inhalation May cause irritation of respiratory tract.
Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects

At high doses, reductions in pregnancy and fertility rates were observed in laboratory rats.

See Section 11 for additional Toxicological information.

Main symptoms

Redness. Swelling of tissue. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Aggravated Medical Conditions Skin disorders.

Interactions with other chemicals No information available

Environmental Hazard Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component(s)	CAS-No	Weight %
Corncob Meal	68525-86-0	60-100
Lasalocid sodium	25999-20-6	10-30
Lecithin	8002-43-5	0.5-1.5
Soybean Oil	8016-70-4	0.5-1.5

4. FIRST AID MEASURES

General advice Show this safety data sheet to the doctor in attendance.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a physician immediately.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.

Ingestion Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Aspiration may cause pulmonary edema and pneumonitis. Call a physician immediately.

Notes to physician Treat symptomatically.

Protection of first-aiders Avoid contact with skin, eyes and clothing. Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable properties Powdered material may form explosive dust-air mixtures. Combustible material.

Suitable extinguishing media Carbon dioxide (CO₂). Alcohol-resistant foam. Dry powder. Water spray.

Unsuitable extinguishing media No information available

Specific hazards arising from the chemical In the event of fire and/or explosion do not breathe fumes.

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

NFPA

Health Hazard 1

Flammability 2

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods for containment	Avoid dust formation. Wet with water.
Methods for clean-up	Avoid dust formation. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.
Other information	Not applicable

7. HANDLING AND STORAGE

Handling	Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Fine dust dispersed in air may ignite. Keep away from open flames, hot surfaces and sources of ignition.
Storage	Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Component(s)	ACGIH TLV	OSHA PEL
Soybean Oil		TWA: 5.0 mg/m ³ (respirable fraction) 15.0 mg/m ³ (total particulate) * Pertains to mist only

Engineering controls Use only in area provided with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment

Eye/face protection	Tightly fitting safety goggles.
Skin protection	Impervious butyl rubber gloves. Lightweight protective clothing. Long sleeved clothing.
Respiratory protection	Wear respirator if there is dust formation. Breathing apparatus with filter.

General hygiene considerations

Use only in an area equipped with a safety shower. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace. Do not get in eyes, on skin, or on clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light brown
Odor	None.
Physical state	Powder.
Water solubility	Insoluble

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Conditions to avoid	Keep away from heat and sources of ignition. Avoid dust formation.
Incompatible materials	Strong oxidizing agents. Acids. Bases.
Hazardous decomposition products	Carbon oxides.
Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Irritating to eyes, respiratory system and skin. Harmful if swallowed.

Component Information

Component(s)	Oral Studies	Value	Unit
Lasalocid sodium	LD50/oral/mouse =	146	mg/kg
	LD50/oral/rat =	122	mg/kg

Component(s)	Inhalation Studies	Value	Unit
Lasalocid sodium	LC50/inhalation/4h/rat =	2.65	ug/cu m

Component(s)	Dermal Studies	Value	Unit
Lasalocid sodium	LD50/dermal/rabbit =	14000	mg/kg

Component(s)	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lasalocid sodium	146 mg/kg (mouse); 122 mg/kg (rat)	14000 mg/kg (rabbit)	2.65 ug/cu m (4h, rat)

Chronic toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

Irritation Irritating to eyes, respiratory system and skin. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Corrosivity None.

Sensitization	Not applicable.
Neurological effects	Not applicable.
Mutagenic effects	Did not show mutagenic effects in animal studies.
Reproductive Toxicity	Not applicable.
Developmental Toxicity	Not applicable.
Target Organ effects	Eyes, Respiratory System.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Corncob Meal

Freshwater Fish Species Data
LC50 3mg/l rainbow trout

Lasalocid sodium

Freshwater Algae Data
EbC50 (96h) = 2.5 mg/L
LC50 (96h) = 8.0 mg/L

Freshwater Fish Species Data
LC50 (96h) = 2.5 mg/l zebrafish
LC50 (96h) = 3mg/l rainbow trout

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Should not be released into the environment. Dispose of in accordance with National, State and Local regulations.
Contaminated packaging	Dispose of in accordance with National, State and Local regulations
US EPA Waste Number	Not applicable.

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

International Inventories

Component(s)	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Corncob Meal	X	X	-	X	-	-	X	X	X	Present
Lasalocid sodium	-	-	-	-	-	-	-	-	-	Present
Lecithin	X	-	-	-	-	-	-	-	-	Present
Soybean Oil	-	-	-	-	-	-	-	-	-	Present

TSCA	Not Listed
DSL	Not Listed
NDSL	Not Listed
EINECS	Not Listed
ELINCS	Not Listed
ENCS	Not Listed
CHINA	Not Listed
KECL	Not Listed
PICCS	Not Listed
AICS	Listed

USA - Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

None

U.S. - State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals: None

State Right-to-Know

none

X - Listed

Canada

WHMIS hazard class

Non-controlled

16. OTHER INFORMATION

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Preparation Date 10-Oct-2007

Revision Date 08-Nov-2007

Revision summary No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS