



MATERIAL SAFETY DATA SHEET

1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name : **PROTEINASE**
Product code : **PROTJUN15**
Chemical Name : **Biocatalyst**
Usage : **Animal feed Additives/supplements**
Appearance : **White powder**
Manufacturer/Supplier : **INVETIS LIFE SCIENCES(P) LTD**
Address : **B-7/26, SITE-C, Industrial area,Surajpur, Greater Noida-201301.**
Cust care no : **+91-9686332841**
E-mail : **info@invetisls.com**

2.COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS NAME	CAS NO	CONTENTS(% BY WT)
Protease (Subtilisin)	9014-01-1	1-10
OTHER INERT INGREDIENTS	N/A	Q.S

3.HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS:EMERGENCY OVERVIEW

Human :May be irritating to eyes,skin and respiratory tract.High airborne dust concentrations may pose an explosion hazard.
Eyes :May cause physical irritation
Skin :Prolonged or repeated contact may causes dryness
Ingestion :Ingestion may cause gastrointestinal irritation,Vomiting and constipation.
Inhalation :Overexposure may cause irritation to respiratory system.

Ecological :No information found

4.FIRST AID MEASURES

Eyes :Immediately flush eyes with plenty of water.Seek medical attention if irritation persist.

Skin :Wash with soap and water to avoid drying and chapping of skin.

Ingestion :If swallowed get immediate medical attention or avoid.

Inhalation :Remove victim to fresh air.Apply resuscitation,if victim is not breathing.Seek medical attention.

5.FIRE FIGHTING MEASURES

Flash point : 120 deg C

Extinguishing media : Dry chemical,foam,carbon dioxide,water fog etc.

Special Exposure Hazards : Product is combustible,but not easily ignitable below 200C.Upon combustion,this product may emit carbon monoxide and low molecular weight hydrocarbons.

Fire fighting Guidance : Fire fighters should wear full protective clothing including self contained breathing apparatus.Avoid direct steam at pressure on to the product to prevent dispersal of the shouldering particles,which could spread the fire.

6.ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid handling in wet hands,use goggles and mask.

Environmental precautions :Keep away from heat,sparks and flames.Avoid contact with eyes,clothing and skin.Avoid brathing dust.Keep container closed.Use adequate ventilation.Wash thoroughly after handling.

Spillage : No information found.

7.HANDLING AND STORAGE

Handling :Avoid contact with eyes,skin and clothing.Avoid generating and breathing dust.

Storage :Keep storage containers closed and dry

8.EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls :Use adequate ventilation,Safety showers and eye wash fountain should be within direct access.

Respiratory protection :A half face dust/mist respirator may be worn.

Hand protection :Use protective gloves.

Ingestion :No adverse effects expected.May cause mild irritation to the GI tract.The oral LD 50(Rat) is 10g/kg.

Eye contact :No adverse effects seen.May cause mild irritation and reddening.

Others:

Health rating :1-Slight

Flammability rating :1-Slight

Reactivity rating :1-Slight

Contact rating :1-Slight

Lab protective equip :Goggles,Lab coat,Class B-Extinguisher

Strong Color code :Orange(general code)

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White

Physical state : Dry powder

Color : White

Odor : Odourless

Solubility : Insoluble

Bulk Density : 1.1 grams/cm³

pH(1% Aqueous solution) : 7.7(+/-1.0)

10.STABILITY AND REACTIVITY

Stability : Stable under ordinary condition of usage and storage.

Hazard decomposition : On combustion to form carbon dioxide and carbon monoxide.

Polymerization :will not occur.

Incompatibilities :Liquid air oxidising materials.Strong oxidisers such as ozone,liquid oxygen,chlorine and permanganate etc.

Conditions to avoid :Incompatibles.

11.TOXICOLOGICAL INFORMATION

Acute studies : Explained in concerned headings

Eye : Explained in concerned headings

Skin : Explained in concerned headings

Ingestion : Explained in concerned headings

Inhalation : Explained in concerned headings

Long term studies : No information found

Carcinogenicity : No information found

Mutagenicity : No information found

Reproductive toxicity : No information found

12.ECOLOGICAL INFORMATION

Persistance in the environment : No information found

Toxic effects in organism : No information found

Fish : No information found

Daphnina Megna : No information found

Birds : No information found

13.DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL :Product which cannot be saved or to be recycled should be managed in an appropriate and approved waste disposal facility.State and local disposal regulations may differ from federal disposal regulations.

Container disposal :Dispose of container and unused contents in accordance with federal,state and local requirements.

14.TRANSPORT INFORMATION:

IATA : As per not regulated NON DANGEROUS Goods
ICAO : As per not regulated NON DANGEROUS Goods
IMDG : As per not regulated NON DANGEROUS Goods
DOT : As per not regulated NON DANGEROUS Goods
RID/ADR : As per not regulated NON DANGEROUS Goods
LABEL : NONE REQUIRED
UN TDG : As per not regulated NON DANGEROUS Goods

15.REGULATORY INFORMATION

Classification and labelling danger symbol : N/A
Danger symbol : N/A
Safety Phrases : N/A

16.OTHER INFORMATION

MSDS data information is intended to give general health and safety guidance on the storage and transport of the substances or the products.The requirement or recommendation of any relevant site or working procedure,system or policy in force or arising from any risk assessment involving the substance or the product shall take precedence over any of the guidance contained in the safety data where there is a difference in the information given.The information provided in this safety data sheet at the date of publication,and will be updated as and when appropriate.



The image shows a handwritten signature in blue ink that reads "S. Chandramohan". To the right of the signature is a purple circular stamp. The stamp contains the text "INVETIS LIFE SCIENCES P. LTD." around the top inner edge and "I.P. LIMITED" around the bottom inner edge. There are two small stars on either side of the text.

S.CHANDRAMOHAN

For INVETIS LIFE SCIENCES(P) LTD