



## **MATERIAL SAFETY DATA SHEET**

### **1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Product name : LYS-IN  
Product code : LYSINMAY17  
Chemical Name : L-Lysine Monohydrochloride  
Chemical Formula : C6-H14-N2-O2.HCl  
Synonyms : Lysine Hydrochloride,Lysine Monohydrochloride,L-Lysine Monohydrochloride  
Usage : Animal feed Additives/supplements  
Appearance : Slight white to light yellow  
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**

<b>INGREDIENTS NAME</b>	<b>CAS NO</b>	<b>CONTENTS(% BY WT)</b>
<b>L-Lysine content(Amino acid)</b>	<b>657-27-2</b>	<b>78</b>
OTHER INERT INGREDIENTS	N/A	12

### **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 chopping 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 : 63 g/100 g water at 20°C

Bulk Density : 0.55 to 0.65 grams/cm<sup>3</sup>

Melting point : 150 C

## **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**

Persistence in the environment : No information found

Toxic effects in organism : No information found

Fish : No information found

Daphnia 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.



**S.CHANDRAMOHAN**

**For INVETIS LIFE SCIENCES(P) LTD**