



# ZSIVIRA CHEMIE MERK PRIVATE LIMITED

According to 91/155EC

## Material Safety Data Sheet

Date of Issue : 20.01.2013

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

#### Product Details

Trade Name : **CATAZYME AI**

#### Manufacturer/Supplier details :

#### **ZSIVIRA CHEMIE MERK PRIVATE LIMITED**

No.9.Arkeeshwarar Colony Main Road, Lakshmipuram, Chromepet, Chennai – 600 044, INDIA

Emergency Telephone Number : +91-44-65855819 or call your nearest poison control center

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization : STABILISED ENZYMES

Dangerous Components : VOID

CAS NO.	Designation	%	Index	R-Phrases
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### 3. HAZARDS IDENTIFICATION

#### Hazard Designation:

According to present state of knowledge, provided that this product is handled correctly, there is no known danger to humans. Avoid Inhaling fine powder

#### Information pertaining to particular dangers for man and environment :

No particular hazards known.

### 4. FIRST AID MEASURES

**General Information :** Take affected persons into the open air.

**After inhalation :** supply fresh air, consult doctor in case of symptoms.

**After skin contact :** Instantly wash with soap and water.

**After eye contact :** Immediately rinse eyes with plenty of water.

**After swallowing :** In case of persistent symptoms consult doctor. Show container or the label.

### 5. SPECIAL FIRE FIGHTING PROCEDURES

**Suitable extinguishing agents :** Foam, Carbon di oxide , dry powder, water spray

**For safety reasons unsuitable extinguishing agents :** No restrictions

**Preventive equipment :** Inhalation mask while packing.

**Additional Information :** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.



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### 6. ACCIDENTAL RELEASE MEASURES

**After spillage, leakage , gas leakage : Use personal protective equipment.**

**Large Amounts :** Do not let the drain in rivers, ponds or sewer systems.

**Small Amounts :** Prevent material from reaching sewage system, holes and cellars.

Take up with absorbent material such as sand and dispose.

**Cleaning of equipment :** Pick up with absorbent material. Dispose of absorbed material in accordance with regulations

**Additional information :** No dangerous substance are released

### 7. HANDLING AND STORAGE

**Handling:**

**Information for safe handling :**

No special measures required

**Information about protection against explosions and fires :** No special measures required.

**Storage :**

No special measures required for storing in store rooms/containers/common storage facility.

Keep in a cool/dry place.

**Storage class :**

**Class according to regulation on inflammable liquids :** Void

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS NO.	Designation	%	Type	Value Unit
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The product does not contain any relevant quantities of materials with critical values that have to be Monitored at the work place.

**Additional occupational Exposure Limit values for possible hazards during processing :**

During Inhalation : 10mg m-3 ( 8 - Stunden as per European Norms)

**Additional Information :**

The lists that were valid during the compilation were used as basis.

**Personal protective equipment :**

General protective and hygienic measures : Wash hands during breaks and at the end of work.

Respiratory Protection : Not required.

Protection of hands : No special protection needed

Eye Protection : goggles with side pieces during packing.

Body Protection : Not required.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Powder  
Colour : Tan colour  
Odour : Slight ferment odour  
Change in condition : NIL  
Boiling Point/range : N.A  
Flash Point : > N.A  
Freeze Point : N.A  
Self inflammability : Product is not self inflammable.  
Danger of Explosion : Product is not explosive.  
Density : approx at 25°C - 1.004gm/cm<sup>3</sup>  
Solubility/Miscibility in water : Fully Soluble  
10% pH value : - 6.0 to 8.0

### 10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided :  
No decomposition if used according to specifications.

Dangerous products of decomposition :  
When used and handled as intended, none.

### 11. TOXICOLOGICAL INFORMATION :

Remarks : According to experience, the product is considered to be harmless to health if used in Correct manner.

#### Primary irritant effect :

On the skin : No irritant effect  
On the eye : slightly irritant  
Sensitization : No sensitizing effect found  
Inhalation : May cause allergic to respiratory system by direct inhalation of this powder.

### 12. ECOLOGICAL INFORMATION :

Remark : No data Available

General Notes: Contains NO AOX

Water hazard class 1 (Self Assessment) : slightly hazardous for water.

Do not allow undiluted product or large quantities of to reach ground water, water bodies or sewage System.



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### 13. DISPOSAL CONSIDERATIONS :

Organically bounded chemical elements in the product : Mix with flammable liquids.

Recommendation : In accordance with local authority regulations, take to special waste incineration Plant.

Uncleanness packaging : If empty contaminated containers are recycled or disposed of , the receiver must be informed about possible hazardous.

Recommendation : Disposal must be made according to official regulations.

Recommended cleaning agent : Water, if necessary with cleaning agents.

### 14. TRANSPORT INFORMATION :

IATA - Not Restricted

ICAO- Not Restricted

DGR Regulations

Land transport ADR / RID : (Cross Border )

ARD / RID - GGVS / E Class : --

Maritime transport IMDG :

IMDG Class : --

Air transport ICAO - TI and IATA - DGR:

ICAO / IATA Class :

### 15. REGULATORY INFORMATION

Designation according to EC guidelines : Observe the normal safety regulations of handling chemical

The product is not subject to identification regulations under EC Directives.

National regulations : Products is not subject to the regulations on flammable substances.

### 16. ADDITIONAL INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Used as leather softening agent in leather tanning.