

# MATERIAL SAFETY DATA SHEET

## **SECTION 1-IDENTITY**

COMMON NAME.

AMOXICILLIN TRIHYDATE

SYNONYMS.

AMINOBENZYL PENCILLIN

CAS NUMBER.

61336-70-7

CHEMICAL NAME.

(6R) - 6 - (a-D - 4 - HYDROXYPHENYLGLYCYL AMINO) PENICILLANIC ACID, TRIHYDATE.

CHEMICAL FAMILY.

AN AMINOPENICILLANIC ACID DERIVATIVE

THERAPEUTICAL CATEGORY.

ANTIBACTERIAL

MANUFACTURER/SUPPLIER

M/S.AUROBINDO PHARMA LIMITED

PLOT NO.2, MAITRI VIHAR,

AMEERPET, HYDERABAD-500038.

A.P. INDIA.

3741083/3741084

### SECTION 2-INGREDIANT INFORMATION

**PRINCIPALCOMPONENTS** 

PERCENT

AMOXICILLIN TRIHYDATE.

100%

#### **SECTION 3-HEALTH HAZARD INFORMATION**

USUAL ADULT DOSE

THE USUAL DOSE OF AMOXICILLIN IS 250 TO 500 MG EVERY SIX HOURS. NOT TO EXCEED A MAXIMUM OF 6 GRAMS DAILY.

ADVERSE EFFECTS

ADVERSE REACTIONS ARE GENERALLY MILD AND CONSISTS OF SKIN RASHES OR DIARRHOEA. OTHER ADVERSE EFFECTS INCLUDE NAUSEA OR VOMITING SOUR MOUTH OR TONGUE AND RARELY LABORED BREATHING. JOINT PAIN SORE THROAT. FEVER HYPERTENSION, STOMACH CRAMP, AND SEVERE DIARRHOEA POSSIBLE ALLERGIC REACTION TO MATERIAL IF INHALED.INGESTED OR IN CONTACT WITH

SKIN.

OVER DOSE EFFECT

n/f

**ACTE** 

POSSIBLE EYE SKIN GASTROINTESTINAL AND/OR RESPIRATORY TRACT IRRITATION.



**CHRONIC** 

POSSIBLE HYPER SENSITIZATION SUPER

INFECTIONS.

INHALATION

MAY CAUSE IRRITATION. AVOID INHALA-

TION REMOVE TO FRESHAIR.

**EYE** 

MAY CAUSE IRRITATION FLUSH WITH COPI-

OUS QUANTITIES OF WATER.

SKIN

MAY CAUSE IRRITATION FLUSH WITH

COPIOUS QUANTITIES OF WATER.

INGESTION

MAY CAUSE IRRITATION. FLUSH MOUTH

WITH WATER THIS MATERIAL WILL BE WELL

ABSORBED FROM EMPTY STOMACH.

MEDICAL CONDITIONS AGGREVATED BY EXPOSURE.

HYPERSENSITIVITY TO MATERIAL. HISTORY OF ALLERGIES. BLEEDING DISORDERS OR GASTROINTESTINAL DISEASE, INFECTIOUS

MONONUCLEOSIS AND IMPAIRED KIDNEY

FUNCTION.

**GROSS SENSITIVITY** 

PERSONS WITH PREVIOUS HISTORY OF SIGNIFICANT ALLERGY OR ASTHMA SHOULD AVOID POTENTIAL EXPOSURE TO THIS MATERIAL. INDIVIDUALS ALLERGIC TO ONE OF THE PENICILLINS OR TO CEPHALOSPORINS, CEPHAMYCINS, GRISEOFULVIN, OR PENICILLAMINE MAY ALSO ALLERGIC TO AMOXICILLINS.PREGNANCY COMMENTS THRE ARE NO ADEQUATE AND WELL CONTROLLED PREGNANCY STUDIES IN HUMAN. HOWEVER STUDIES IN ANIMALS HAVE REVEALED NO EVIDENCE OF ADVERSE EFFECTS ON

PREGNANCY CATOGERY

В

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.

FOETUS DUE TO PENICILLINS.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.



IF SWALLOWED, WASHOUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

# **SECTION 4-FIRE FIGHTING MEASURES**

EXTINGUISHING MEIDA WATER SPARY

CARBON DIOXIDE, DRY CHEMICAL POWDER

OR APPROPRIATE FOAM.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND SIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE EXPLO

CONDITIONS.

# SECTION 5 - ACCIDENTAL RELEASE MEASURES

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

AVOID RAISING DUST

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

#### SECTION6 - HANDLING AND STORAGE

HANDLING

AS A GENERAL RULE WHEN HANDLING AVOID ALL CONTACT AND INHALTION OF DUST. MISTS. AND/OR VAPOURS ASSOCI-ATED WITH THE MATERIAL. WASH THOROUGHLY AFTER HANDLING.

**STORAGE** 

STORE IN TIGHT CONTAINER AS DEFINED IN THE LABEL. THE MATERIAL SHOULD BE HANDLED AND STORED AS PER LABLE INSTRUCTIONS TO ENSURE PRODUCT INTEGRITY.

### SECTION 7 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.



SPILL RESPONSE WEAR APPROVED RESPIRATOR, CHEMI-

CALLY COMPATIBLE GLOVES AND PROTECTIVE CLOTHING. WIPE UP SPILLAGE OR COLLECT SPILLAGE USING A HIGH EFFICIENCY VACUUME CLEANER. AVOID BREATHING PLACE SPILLAGE IN APPROPRIATELY LABELLED CONTAINER FOR

DISPOSAL. WASH SPILL SITE.

DISPOSAL DISPOSE OF WASTE IN ACCORDENCE WITH

ALL APPLICABLE FEDERAL, STATE AND

LOCAL LAWS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION WHEN WORKING WITH SMALL QUANTI-

TIES IN A WELL VENTILATED AREA. RESPIRATORY PROTECTION MAY NOT BE REQUIRED. THE USE OF AN APPROVED DUST

MASK IS RECOMMENED.

VENTILATION NO SPECIAL VENTILATION R EQUIREMENTS.

GLOVES RUBBER

EYE PROTECTION SAFETY GLASSES

PROTECTIVE CLOTHING PROTECT EXPOSED SKIN.

SECTION 9-PHYSICAL CHEMICAL PROPERTIES

APPEARANCE AND ODOUR A WHITE OR ALMOST WHITE CRYSTALLINE

POWDER. PRACTICALLY ODOURLESS.

MELTING POINT 216°C to 218 °C (DECOMPOSES)

SPECIFIC GRAVITY n/f

REACTIVITY IN WATER n/f

% VOLATILE BY VOLUME n/f

Revision date:

05-sep-11

#### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade name:

Potassium Clavulanate

Use:

Active Pharmaceutical Ingredient

Directions for use:

Company identification:

Raw material for medical products manufacture

Fermic S.A. de C.V.

873 Reforma Iztapalapa 09850 D.F. Mexico City

Mexico

Emergency telephone number: 52 55 5037 0000 Telephone number for information: 52 55 5037 0000

2. HAZARDS IDENTIFICATION

Risk Phrases: Possible allergic reaction to material if inhaled, ingested or in

contact with skin.

Adverse human health effects: Acute: Possible eye, skin, gastrointestinal and/or respiratory

tract irritation

Chronic: Possible hypersensitization

Inhalation: May cause irritation of respiratory tract.

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:

Substance name:

Contents:

CAS No.

EC No. Annez No.

Classification:

Potassium Clavulanate

100%

61177-45-5

R42/43, R52

4. FIRTS AID MEASURES

First aid measures

Inhalation: Assure fresh air breathing. Rest. If you feel unwell, seek

medical advice.

Skin contact: Remove affected clothing and wash all exposed skin area

with mild soap and water.

Eye contact: Rinse immediately with plenty of water. Obtain medical

attention if pain, blinking, tears or redness persist.

Ingestion: Rinse mouth. If swallowed, seek medical advice immediately

and show this Safety Data Sheet or label.

Overdose treatment: Administering epinephrine, adrenocorticoids, and

antihistamines for allergic reactions.

5. FIRE-FIGHTING MEASURES

Extinguishing media

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Walter spray, dry chemical, carbon dioxide or foams as

appropriate for surrounding fire and materials.

Unsuitable extinguishing media:

Surroundig fires:

Do not use a heavy water stream.

Use water spray or fog for cooling exposed containers.

<u>Protection againts fires:</u> Do not enter fire area without proper protective equipment,

including respiratory protection.

Hazardous combustion products: Incomplete combustion will generate poisonous carbon

monoxide, carbon dioxide and other toxic gases (NOx).

6. ACCIDENTAL RELEASE MEASURES

General precautions:

Personal precautions:

Clean up methods:

Remove ignition sources. Evacuate area.

Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. To clean the floor and all objects contaminated by this material, use: Water./Detergent. Avoid dust production.

Ensure adequate ventilation. Wash contaminated clothing

before reuse.

7. HANDLING AND STORAGE

Personal protection: Avoid all unnecessary exposure.

Use the appropriate personal protective equipment (see 8)

Technical protective measures: Material should be handled with adequate dust control.(e.g.

in a laboratory hood).

Handling: Handle in accordance with good industrial hygiene and safety

procedures. Avoid contact with eyes, skin or clothing. Avoid breathing dust. Use with adequate dust control. Wash thoroughly handling wear clothing daily. Wash contaminated

clothing before reuse. Ventilate area.

Storage: Store in dry cool place between 2 and 8°C (36 and 46°F) in

air tight containers packed under inert atmosphere. This material should be handled and stored per label and other

instructions to ensure product integrity.

Storage - away from:

All heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks. Incompatible materials, see 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection

Respiratory protection: Wear approved mask.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection: Wear suitable gloves resistant to a chemical penetration.

Skin protection: Wear suitable protective clothing.

Eye protection: Chemical goggles or safety glasses.

Industrial hygiene: Provide local exhaust or general room ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical formula:C<sub>8</sub>H<sub>8</sub>KNO₅Molecular weight:237.25 g/molPhysical state at 20 °C:Crystalline powder

Colour: White

pH value:5,5 - 8,0 (solution)Melting point [°C]:No data availableBoiling point [°C]:No data available

Solubility in water: Potassium Clavulanate is very soluble in water with

decomposition

Flash point [°C]:

Log P octanol / water at 20 °C:

No data available

No data available

## 10. STABILITY AND REACTIVITY

Stability and reactivity: Stable under storage conditions.

<u>Materials to avoid:</u> Strong oxidizers.

<u>Conditions to avoid:</u> Light. Heat. Moisture.

Hazardous decomposition products:

Carbon monoxide. Carbon dioxide. Nitrogen oxides. When

heated to descomposition, emits dangerous fumes.

Hazardous reactions: None under normal conditions.

Hazardous polimerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

RTECS nr: No data available.

Rat oral LD50 [mg/kg]: > 10.000

Rabbit dermal LD50 [mg/kg]:No data available.Rat inhalation LD50 [mg/L/4h]:No data available.Acute toxicity:No data available.Chronic toxicity:No data available.Sensitization:No data available.NTP:No data available.IARC:No data available.

Target Organ (s): Gastrointestinal system, kidney

OSHA: No data available.

#### 12. ECOLOGICAL INFORMATION

Ecological effects information

LC50 - 96 Hour - fish [mg/L]:
EC50 - 48 Hour - Daphnia magna [mg/L]:
No data available.
Biodegradation [%]:
Biodegradable.
No data available.
No data available.
No data available.
No data available.

#### 13. DISPOSAL CONSIDERATIONS

General: Dispose of this material and its container at hazardous or

special waste collection point. Dispose in a safe manner in

accordance with local and federal regulation.

### 14. TRANSPORT INFORMATION

General information: Not regulated for transport under USDOT, EUADR, IATA or

IMDF regulations.

Transport under conditions indicated in seccion 7

#### 15. REGULATORY INFORMATION

Symbol (s):

Xn: Harmful.

R Phrase (s):

R42/43: May cause sensitization by inhalation and skin

contact.

R52: Harmful to aquatic organisms.

S Phrase (s):

S22: Do not breathe the dust. S24: Avoid contact with skin.

S36/37: Wear suitable protective clothing and gloves. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

S61: Avoid release to the enviroment.

#### 16. OTHER INFORMATION

Further information:

Revision 1.0

List of relevant R phrases:

R42: May cause sensitization by inhalation.
R43: May cause sensitization by skin contact.

R52: Harmful to aquatic organisms.

### NOTICE

This information contained herein is applicable solely to this chemical substance when used as intermediate for production of drug finished form. Its use is intended by personnel having technical skill and at their own discretion and risk. The information is considered reliable but has not been independently verified. Therefore, Fermic cannot guarantee the accuracy of the information of these sources nor should the statements contained herein be considered as official expression.