

## MATERIAL SAFETY DATA SHEET PIPEMIDIC ACID

1. Information of the substance / preparation and of the company

Commercial product name   Pipemidic Acid  
Company:                      Farmabase Pharmaceutical Raw Materials  
                                    Campiello del Trivio, 12  
                                    38068 Rovereto  
                                    Italy  
                                    Phone: 0464/421996  
                                    Fax: 0464/421985  
CAS nr.                        51940-44-4

2. Chemical Characterisation & physical form

Chemical formula             $C_{14}H_{17}N_5O_3$   
Molecular weight            303.32  
Physical form                Pipemidic Acid is a yellowish-white powder

3. First aid measures

Eye contact: in case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin contact: in case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Ingestion: if swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation: if inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

4. Fire fighting measures

Extinguish using water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Flash point: 277 °C

Emits toxic fumes under fire conditions.

5. Accidental release measures

Small spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Campiello del Trivio, 12  
38068 Rovereto (Italy)  
P.O.Box 120

Phone: 0464 421996 - 424246  
Fax: 0464 421985  
Email: fabioec@tin.it

VAT/P.I.: IT 01285580229  
C.F.: CCH FBA 62T18 H612E  
C.C.I.A.A.: 127370  
Pos.Mec.: TN 011775

# F A R M A B A S E

## PHARMACEUTICAL RAW MATERIALS

### 6. Handling and storage

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

### 7. Exposure controls / personal protection

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits.

Personal protection:

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

### 8. Physical and chemical properties

Physical state	powder
Colour	yellowish-white
Melting point	254 °C
Boiling point	535 °C
Solubility	very soluble in water

### 9. Stability and reactivity

The product is stable at normal temperatures and pressures.

Products of decomposition: nitrogen oxides, carbon monoxide, carbon dioxide.

### 10. Toxicological information

No data available.

### 11. Ecological information

No data available.

### 12. Disposal considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### 13. Transport information

The material is non hazardous according to current regulations for transportation of hazardous goods. These codes are not applicable as the material is not hazardous.

### 14. Other information

The information herein is believed to be correct as of the date but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws & guidelines as applicable.

FARMABASE Pharmaceutical  
Raw Materials

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Phone: 0464 421996 - 424246  
Fax: 0464 421985  
Email: [fabioec@tin.it](mailto:fabioec@tin.it)

VAT/P.I.: IT 01285580229  
C.F.: CCH FBA 62T18 H612E  
C.C.I.A.A.: 127370  
Pos.Mec.: TN 011775

4 Kings Road, Reading, Berkshire RG1 3AA England

Tel: +44 (0) 118 958 0247

Fax: +44 (0) 870 751 9267

Internet: [www.stanchem.co.uk](http://www.stanchem.co.uk)

E.Mail: [sales@stanchem.co.uk](mailto:sales@stanchem.co.uk)



## MATERIAL SAFETY DATA SHEET

### SECTION 1. ----- CHEMICAL IDENTIFICATION -----

NAME: ALPRAZOLAM

### SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

CAS #: 28981-97-7

MF: C17H13CLN4

EC NO: 249-349-2

#### SYNONYMS

ALPLAX \* ALPRAZOLAM \* 8-CHLORO-1-METHYL-6-PHENYL-4H-S-TRIAZOLO(4,3-A)  
(1,4)BENZODIAZEPINE \* D 65MT \* TAFIL \* TRANKIMAZIN \* TUS-1 \* U 31889 \*  
XANAX \* XANOR \*

### SECTION 3. ----- HAZARDS IDENTIFICATION -----

LABEL PRECAUTIONARY STATEMENTS HARMFUL

POSSIBLE RISK OF HARM TO THE UNBORN CHILD. HARMFUL IF SWALLOWED.

CALIF. PROP. 65 REPRODUCTIVE HAZARD.

WEAR SUITABLE PROTECTIVE CLOTHING.

DO NOT BREATHE DUST.

### SECTION 4. ----- FIRST-AID MEASURES -----

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

CALL A PHYSICIAN IMMEDIATELY.

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

IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND  
SHOES. CALL A PHYSICIAN.

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING  
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

### SECTION 5. ----- FIRE FIGHTING MEASURES -----

#### EXTINGUISHING MEDIA

WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

#### SPECIAL FIREFIGHTING PROCEDURES

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

#### UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

### SECTION 6. ----- ACCIDENTAL RELEASE MEASURES -----

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY  
RUBBER GLOVES.

WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.

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.

EVACUATE AREA.



**SECTION 7. ----- HANDLING AND STORAGE -----**

REFER TO SECTION 8.

**SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----**

USE ONLY IN A CHEMICAL FUME HOOD.  
SAFETY SHOWER AND EYE BATH.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.  
WASH THOROUGHLY AFTER HANDLING.  
DO NOT BREATHE DUST.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
CHEMICAL SAFETY GOGGLES.  
KEEP TIGHTLY CLOSED.  
STORE IN A COOL DRY PLACE.

**SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----**

APPEARANCE AND ODOR	WHITE SOLID.
MELTING POINT	224 - 226°C
DECOMPOSITION TEMPERATURE	NOT AVAILABLE
SOLUBILITY	INSOLUBLE IN WATER ,FREELY SOLUBLE IN DICHLOROMETHANE SPARINGLY SOLUBLE IN ACETONE & IN ALCOHOL.
MOLECULAR FORMULA	$C_{17}H_{13}CLN_4$
MOLECULAR WEIGHT	308.8

**SECTION 10. ----- STABILITY AND REACTIVITY -----**

STABILITY STABLE.  
INCOMPATIBILITIES STRONG OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
CARBON MONOXIDE, CARBON DIOXIDE  
NITROGEN OXIDES  
HYDROGEN CHLORIDE GAS  
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

ACUTE EFFECTS  
MAY CAUSE SKIN IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.  
MAY CAUSE EYE IRRITATION.  
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
MAY BE HARMFUL IF INHALED. HARMFUL IF SWALLOWED.  
EXPOSURE CAN CAUSE: CNS DEPRESSION  
GASTROINTESTINAL DISTURBANCES  
PROLONGED OR REPEATED EXPOSURE CAN LEAD TO HABITUATION OR ADDICTION.  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.  
CHRONIC EFFECTS  
POSSIBLE RISK OF CONGENITAL MALFORMATION IN THE FETUS.

**TOXICITY DATA**

ORL-RAT LD50:1220 MG/KG

IPR-RAT LD50:355 MG/KG

SCU-RAT LD50:&gt;5 GM/KG

ORL-MUS LD50:770 MG/KG

IPR-MUS LD50:380 MG/KG

SCU-MUS LD50:&gt;5 GM/KG

**TARGET ORGAN DATA**

AUTONOMIC NERVOUS SYSTEM (SMOOTH MUSCLE RELAXANT)

BEHAVIORAL (EUPHORIA)

BEHAVIORAL (SOMNOLENCE)

BEHAVIORAL (HALLUCINATIONS, DISTORTED PERCEPTIONS)

BEHAVIORAL (EXCITEMENT)

BEHAVIORAL (FOOD INTAKE)

BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)

BEHAVIORAL (MUSCLE WEAKNESS)

BEHAVIORAL (ANTIPSYCHOTIC)

LUNGS, THORAX OR RESPIRATION (RESPIRATORY DEPRESSION)

EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)

SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)

EFFECTS ON NEWBORN (BEHAVIORAL)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES  
(RTECS) DATA IS PRESENTED HERE.**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

DATA NOT YET AVAILABLE.

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**CONTACT THE DRUG ENFORCEMENT ADMINISTRATION CONCERNING THE DISPOSAL  
OF CONTROLLED SUBSTANCES.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

IATA : NOT RESTRICTED

ADR : NOT RESTRICTED

IMO : NOT RESTRICTED

TO BE STORED AT ROOM TEMPERATURE ( 25-30° C )

**SECTION 15. ----- REGULATORY INFORMATION -----**

THE SIDE EFFECT OF THE PRODUCT IS RELATED TO ITS PHARMACOLOGICAL ACTIVITY

EUROPEAN INFORMATION HARMFUL R 63

POSSIBLE RISK OF HARM TO THE UNBORN CHILD.

R 22

HARMFUL IF SWALLOWED.

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

S 22

DO NOT BREATHE DUST.

U.S. INFORMATION

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS OR CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF  
CALIFORNIA TO CAUSE DEVELOPMENTAL TOXICITY.**SECTION 16. ----- OTHER INFORMATION -----**THE DATA GIVEN HERE IS BASED IN CURRENT KNOWLEDGE AND EXPERIENCE. THE  
PURPOSE OF THIS SAFETY DATA IS TO DESCRIBE THE PRODUCTS IN TERMS OF THEIR  
SAFETY REQUIREMENTS. THE DATA DOES NOT SIGNIFY ANY WARRANTY WITH REGARD TO  
THE PRODUCTS PROPERTIES.