Alpha Chemika
ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION
MATERIAL SAFETY DATA SHEET
MSDS
Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : 1-(4-FLUOROPHENYL) PIPERAZINE 98%

Synonyms:
CAS No.: 2252-63-3
Molecular Weight: 180.22
Chemical Formula: $C_{10}H_{13}FN_2$

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
1-(4-Fluorophenyl) Piperazine	2252-63-3	98-100%	Yes

Section 3 - Hazardous Identification

Risk advice to man and the environment
Irritating to eyes, respiratory system and skin. Harmful if swallowed.

Section 4 - First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions
Do not let product enter drains.
Methods for cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8 - Exposure Controls, Personal Protection

Personal protective equipment
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
Eye protection
Safety glasses
Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical and Chemical Properties

Appearance
Form solid
Safety data
pH no data available
Melting point 30 - 33 °C
Boiling point 118 - 123 °C at 0,1 hPa
Flash point 113,00 °C - closed cup
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Water solubility no data available
Partition coefficient:
n-octanol/water
log Pow: 1,257

Section 10 - Stability and Reactivity

Storage stability
Stable under recommended storage conditions.
Materials to avoid
Acid chlorides, Acid anhydrides
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Hydrogen fluoride

Section 11 - Toxicological Information

Acute toxicity
no data available
Irritation and corrosion
no data available
Sensitisation
no data available
Chronic exposure
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Potential Health Effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Ingestion Harmful if swallowed.

Section 12 - Ecological Information

Elimination information (persistence and degradability)
no data available
Ecotoxicity effects
no data available
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 402,6 mg/l - 96 h
Further information on ecology
no data available

Section 13 - Disposal Considerations

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging
Dispose of as unused product.

Section 14 - Transport Information

ADR/RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

Section 15 - Regulatory Information

Labelling according to EC Directives
Hazard symbols
Xn Harmful
R-phrase(s)
R36/37/38 Irritating to eyes, respiratory system and skin.
R22 Harmful if swallowed.
S-phrase(s)
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Section 16 - Additional Information

Not Available