



# 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-METHYL PIPERAZINE 99%**

**Synonyms :**

**CAS No. :** 109-01-3

**Molecular Weight:** 100.16

**Chemical Formula:** C<sub>5</sub>H<sub>12</sub>N<sub>2</sub>

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
1-Methyl Piperazine	109-01-3	98-100%	YES

## Section 3 - Hazardous Identification

### Risk advice to man and the environment

Flammable. Harmful by inhalation and in contact with skin. Causes burns.

## 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

Take off contaminated clothing and shoes immediately. 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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Fire Fighting Measures

### **Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **Further information**

Use water spray to cool unopened containers.

## Section 6 - Accidental Release Measures

### **Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### **Environmental precautions**

Do not let product enter drains.

### **Methods for cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

### **Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### **Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

hygroscopic Moisture sensitive.

## Section 8 - Exposure Controls, Personal Protection

### **Personal protective equipment**

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air 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**

Tightly fitting safety goggles. Faceshield (8-inch minimum).

#### **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

clear, liquid Colour

light yellow **Safety**

### data

pH no data available

Melting point no data available

Boiling point 138 °C - lit.

Flash point 39 °C - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 0,903 g/mL at 25 °C

Water solubility no data available

Relative vapour

density

3,46

- (Air = 1.0)

## Section 10 - Stability and Reactivity

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Acids, Acid chlorides, Acid anhydrides, Strong oxidizing agents, Carbon dioxide (CO<sub>2</sub>)

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

## Section 11 - Toxicological Information

### Acute toxicity

LD50 Oral - rat - 2.553 mg/kg

LD50 Oral - mouse - 1.450 mg/kg

Remarks: Behavioral:Excitement. Behavioral:Change in motor activity (specific assay). Behavioral:Muscle contraction or spasticity.

LC50 Inhalation - mouse - 2 h - 2,74 mg/l

Remarks: Behavioral:Excitement. Lungs, Thorax, or Respiration:Dyspnea.

LD50 Dermal - rabbit - 1.344 mg/kg

LD50 Intraperitoneal - mouse - 150 mg/kg

### Irritation and corrosion

Skin - rabbit - Severe skin irritation

Eyes - rabbit - Severe eye irritation

### 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.

### Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Aspiration or inhalation may cause chemical pneumonitis., spasm, inflammation and edema of the bronchi, Acute symptoms of overexposure include:, burning sensation, Cough, wheezing, laryngitis, Headache, Nausea, Vomiting

### **Potential Health Effects**

**Inhalation** Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Skin** Harmful if absorbed through skin. Causes skin burns.

**Eyes** Causes eye burns.

**Ingestion** May be harmful if swallowed. Causes burns.

### **Additional Information**

RTECS: TM1225000

## **Section 12 - Ecological Information**

### **Elimination information (persistence and degradability)**

no data available

### **Ecotoxicity effects**

no data available

### **Further information on ecology**

no data available

## **Section 13 - Disposal Considerations**

### **Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### **Contaminated packaging**

Dispose of as unused product.

## **Section 14 - Transport Information**

### **ADR/RID**

UN-Number: 2734 Class: 8 (3) Packing group: II

Proper shipping name: AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (1-Methylpiperazine)

### **IMDG**

UN-Number: 2734 Class: 8 (3) Packing group: II EMS-No: F-E, S-C

Proper shipping name: AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (1-Methylpiperazine)

Marine pollutant: No

### **IATA**

UN-Number: 2734 Class: 8 (3) Packing group: II

Proper shipping name: Amines, liquid, corrosive, flammable n.o.s. (1-Methylpiperazine)

## **Section 15 - Regulatory Information**

### **Labelling according to EC Directives**

Hazard symbols

C Corrosive

R-phrases(s)

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R34 Causes burns.

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## **Section 16 - Additional Information**

**Not Available**