



# 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 : Iso-PROPYLAMINE

**Synonyms :** 2-Aminopropane

**CAS No.:** 75-31-0

**Molecular Weight:** 59.11

**Chemical Formula:** C<sub>3</sub>H<sub>9</sub>

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Iso-propyl Amine	75-31-0	90 - 100%	No

## Section 3 - Hazardous Identification

### Risk advice to man and the environment

Extremely flammable. Irritating to eyes, respiratory system and skin.

## 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

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**

Prevent further leakage or spillage if safe to do so. 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).

## 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**

Store in cool place. 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.

## 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 AXBEK (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 liquid

### Safety data

pH 13 at 700 g/l at 20 °C

Melting point -101 °C

Boiling point 33 - 34 °C - lit.

Flash point -18 °C - closed cup

Ignition temperature 402 °C

Lower explosion limit 2 %(V)

Upper explosion limit 10,4 %(V)

Vapour pressure 634,1 hPa at 20 °C

2.222,2 hPa at 55 °C

Density 0,688 g/mL at 20 °C

0,694 g/mL at 25 °C

Water solubility soluble

Partition coefficient:

n-octanol/water

log Pow: -0,03

Relative vapour

density

2,04

- (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

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

## Section 11 - Toxicological Information

### Acute toxicity

LD50 Oral - rat - 550 mg/kg

LD50 Dermal - rabbit - 380 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., Cough, Shortness of breath, Headache, Nausea

### 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** May be harmful if swallowed.

**Additional Information**

RTECS: NT8400000

## Section 12 - Ecological Information

**Elimination information (persistence and degradability)**

Biodegradability

**Ecotoxicity effects**

Toxicity to fish LC50 - *Salmo salar* (Atlantic salmon) - 40 mg/l - 96 h

Toxicity to daphnia

and other aquatic

invertebrates.

EC50 - *Daphnia magna* (Water flea) - 47,4 mg/l - 48 h

**Further information on ecology**

Do not empty into drains.

no data available

## Section 13 - Disposal Considerations

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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: 1221 Class: 3 (8) Packing group: I

Proper shipping name: ISOPROPYLAMINE

**IMDG**

UN-Number: 1221 Class: 3 (8) Packing group: I EMS-No: F-E, S-C

Proper shipping name: ISOPROPYLAMINE

Marine pollutant: No

**IATA**

UN-Number: 1221 Class: 3 (8) Packing group: I

Proper shipping name: Isopropylamine

## Section 15 - Regulatory Information

**Labelling according to EC Directives**

EC Label

Hazard symbols

F+ Extremely flammable

Xi Irritant

R-phrases)

R12 Extremely flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrases)

S16 Keep away from sources of ignition - No smoking.

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

S29 Do not empty into drains.



## **Section 16 - Additional Information**

**Not Regulated**