



# 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 : 2-ETHYLHEXYL ACRYLATE 98%**

**Synonyms :** acrylic acid 2-ethyl hexyl ether

**CAS No.:** 103-11-7

**Molecular Weight:** 184.28

**Chemical Formula:** C<sub>11</sub>H<sub>20</sub>O<sub>2</sub>

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
2-Ethylhexyl Acrylate	103-11-7	98-100%	Yes

## Section 3 - Hazardous Identification

### Risk advice to man and the environment

Irritating to respiratory system and skin. May cause sensitization by skin contact.

## 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 breathing vapors, mist or gas. Ensure adequate ventilation.

### **Environmental precautions**

Do not let product enter drains.

### **Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. 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**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Store under inert gas. Air sensitive. Light 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**

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 liquid

Colour colourless

### Safety data

pH no data available

Melting point -90 °C

Boiling point 215 - 219 °C

Flash point 79 °C - closed cup

Ignition temperature 258 °C

Lower explosion limit 0,8 %(V)

Upper explosion limit 6,4 %(V)

Vapour pressure 0,20 hPa at 20 °C

Density 0,885 g/mL at 25 °C

0,884 g/mL at 20 °C

Water solubility no data available

Partition coefficient:

n-octanol/water

log Pow: 3,67

Relative vapour

density

6,36

- (Air = 1.0)

## Section 10 - Stability and Reactivity

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

May polymerize on exposure to light. Unstable upon depletion of inhibitor. Heat. Light.

### Materials to avoid

Strong acids, Strong oxidizing agents, Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section 11 - Toxicological Information

### Acute toxicity

LD50 Oral - mouse - 4.400 mg/kg

Remarks: Behavioral:Excitement.

LD50 Dermal - rabbit - 7.496 mg/kg

### Irritation and corrosion

Skin - rabbit - Skin irritation - 24 h

Eyes - rabbit - Severe eye irritation

### Sensitisation

May cause allergic skin reaction.

### Chronic exposure

Carcinogenicity - mouse - Skin

Tumorigenic:Carcinogenic by RTECS criteria. Skin and Appendages: Other: Tumors. Tumorigenic:Tumors at site or application.

Carcinogenicity - mouse - Skin

Tumorigenic:Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors. Tumorigenic:Tumors at site or application.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: Group 3 - Not classifiable as to carcinogenicity to humans (2-Ethylhexyl acrylate)

### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **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** May cause eye irritation.

**Ingestion** May be harmful if swallowed.

### **Additional Information**

RTECS: AT0855000

## **Section 12 - Ecological Information**

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

Biodegradability Biotic/Aerobic

Biotic/Aerobic

Biotic/Aerobic

Bioaccumulation Pimephales promelas (fathead minnow) -

Bioconcentration factor (BCF): 263

### **Ecotoxicity effects**

Toxicity to fish LC0 - Leuciscus idus melanotus - 9 mg/l - 48 h

LC50 - Leuciscus idus melanotus - 23 mg/l - 48 h

Toxicity to daphnia

and other aquatic

invertebrates.

EC50 - Daphnia magna (Water flea) - 17,45 mg/l - 48 h

Toxicity to algae EC50 - Scenedesmus subspicatus - 44 mg/l - 72 h

### **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**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

UN-Number: 3334 Class: 9

Proper shipping name: Aviation regulated liquid n.o.s. (2-Ethylhexyl acrylate)

## **Section 15 - Regulatory Information**

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

EC Label

Hazard symbols

Xi Irritant

R-phrase(s)

R37/38 Irritating to respiratory system and skin.

R43 May cause sensitization by skin contact.

S-phrase(s)

S36/37 Wear suitable protective clothing and gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

## **Section 16 - Additional Information**

**Not Available**