



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 : ETHYL ISOCYANATE

Synonyms:

CAS No.: 109-90-0

Molecular Weight: 71.08

Chemical Formula: C₃H₅

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ethyl Isocyanate	109-90-0	98 - 100%	Yes

Section 3 - Hazardous Identification

Risk advice to man and the environment

Highly flammable. Harmful by inhalation and in contact with skin. Toxic if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.

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.

Handle and store under inert gas. 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 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

Face shield and 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 - Physical and Chemical Properties

Appearance

Form cloudy, liquid

Colour light yellow

Safety data

pH no data available

Melting point < -50 °C

Boiling point 60 °C - lit.

Flash point -10 °C - closed cup Ignition

temperature no data available Lower

explosion limit no data available Upper

explosion limit no data available

Vapour pressure 147 hPa at 20 °C

Density 0,898 g/mL at 25 °C

Water solubility no data available

Section 10 - Stability and Reactivity

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Heat. Avoid moisture.

Heat, flames and sparks.

Materials to avoid

Water, Alcohols, Strong bases, Amines, acids, Strong oxidizing agents Strong oxidizing agents

Hazardous decomposition products

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

Section 11 - Toxicological Information

Acute toxicity

Inhalation: no data available

LD50 Intravenous - mouse - 56 mg/kg

Irritation and corrosion

no data available

Sensitisation

May cause allergic respiratory reaction.

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

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burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting

Potential Health Effects

Inhalation Harmful if inhaled. Causes respiratory tract irritation.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion Toxic if swallowed.

Additional Information

RTECS: NQ8825000

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

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: 2481 Class: 3 (6.1) Packing group: I

Proper shipping name: ETHYL ISOCYANATE

IMDG

UN-Number: 2481 Class: 3 (6.1) Packing group: I EMS-No: F-E, S-D

Proper shipping name: ETHYL ISOCYANATE

Marine pollutant: No

IATA

UN-Number: 2481 Class: 3 (6.1)

Proper shipping name: Ethyl isocyanate

IATA Passenger: Not permitted for transport

IATA Cargo: Not permitted for transport

Section 15 - Regulatory Information

Labelling according to EC Directives

Hazard symbols

F Highly flammable

T Toxic

R-phrases(s)

R11 Highly flammable.

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

R25 Toxic if swallowed.

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

R42 May cause sensitization by inhalation.

S-phrases(s)

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.

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 Regulated.