

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethyl 2-butynoate
Synonyms: Ethyl 1-propynecarboxylate; Ethyl 3-methylpropiolate
Company Identification: PI Chemicals Ltd.
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Zhangjiang Hi-Tech Park
Pudong New Area, Shanghai China, 201203
Telephone Number: 86-21-58953700
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Section 2 - Product Information

Catalog Number: PI-22064
CAS Number: 4341-76-8
MDL Number: MFCD00015182
EC Number: 224-395-6
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Liquid
Color: Colorless or pale yellow
Odor: Not available
Molecular Formula: C₆H₈O₂
Molecular Weight: 112.13
Freezing/Melting Point: Not available
Boiling Point: 160-161 °C/730 mm Hg(lit.)
Flash Point: 53°(127°F)
Autoignition Temperature: Not available
Refractive Index (n_D20): Not available
Density: 0.962 g/mL at 25 °C(lit.)
Decomposition Temperature: Not available
Solubility: Soluble in water

Section 4 - Hazards Identification

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May be harmful if swallowed.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Section 6 - Stability and Reactivity

Chemical Stability: Stable under recommended temperatures and pressures.
Materials to avoid: Strong oxidizing agents, Strong acids.
Conditions to Avoid: Incompatible materials.
Hazardous Decomposition Products: Carbon oxides.
Hazardous Polymerization: Has not been reported.

Section 7 - Handling and Storage

Handling: Avoid all direct contact with material. Wash thoroughly after handling. Have safety shower and eye wash available. Do not get in eyes, on skin, on clothing.
Storage: Keep container tightly closed in a dry and well-ventilated place.

Section 8 - Personal Protection

Eyes: Wear appropriate protective eyeglasses.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Fire and Explosion Hazard Data

General Information: As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 11 - Toxicological Information

RTECS#: CAS# 4341-76-8: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: Ethyl 2-butynoate
–Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Environmental information

Not available

Section 13 - Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14 - Transport Information

IATA: UN3272 Hazard Class: 3 Packing Group: III.

IMO: UN3272 Hazard Class: 3 Packing Group: III.

RID/ADR: UN3272 Hazard Class: 3 Packing Group: III.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 10: Flammable.

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 23: Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37: Wear suitable gloves..

WGK (Water Danger/Protection)

CAS#4341-76-8: 3.

Canada

CAS# 4341-76-8: Not available.

US Federal

TSCA

CAS# 4341-76-8 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: March 23, 2009

Update: April 25, 2010

The above information is believed to be accurate and represents the best knowledge available to us currently. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.