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**TECHNO PHARMCHEM**

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)  
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)  
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)  
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## ETHYL ACETATE

### 1. Product Identification

Synonyms: Ethyl ethanoate

CAS No.: 141-78-6

Molecular Weight: 88.11

Chemical Formula:  $\text{CH}_3\text{COOC}_2\text{H}_5$

Product Codes: 37030, A-37030, 42012

### 2. Composition/Information on Ingredients

| Ingredient    | CAS No   | Percent   |
|---------------|----------|-----------|
| Ethyl Acetate | 141-78-6 | 99 - 100% |

### 3. Hazards Identification

Potential Health Effects

**Inhalation:** Inhalation can cause severe irritation of mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. High concentrations may cause lung damage.

**Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

**Skin Contact:** Causes irritation to skin. Symptoms include redness, itching, and pain. Repeated or prolonged contact with the skin has a defatting effect and may cause dryness, cracking, and possibly dermatitis.

**Eye Contact:** Causes irritation, redness, and pain.

**Chronic Exposure:** Chronic overexposure may cause anemia with leukocytosis and damage to the liver and kidneys.

**Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

### 4. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:** Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### 5. Fire Fighting Measures

**Fire:** Flash point: -4C (25F) CC

**Autoignition temperature:** 426C (799F)

**Flammable limits in air % by volume:** lel: 2.0; uel: 11.5

**Fire Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

Water may be ineffective. Water spray may be used to keep fire exposed containers cool.

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures. Vapors can flow along surfaces to distant ignition source and flash back.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

#### 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues.

#### 8. Exposure Controls/Personal Protection

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

**Appearance:** Clear liquid.

**Odor:** Fruity odor.

**Solubility:** 1 ml/10ml water @ 25C

**Specific Gravity:** 0.899 – 0.902 @ 20C/4C

**pH:** No information found.

**% Volatiles by volume @ 21C (70F):** 100

**Boiling Point:** 77C (171F)

**Melting Point:** -83C (-117F)

**Vapor Density (Air=1):** 3.0

**Vapor Pressure (mm Hg):** 76 @ 20C (68F)

**Evaporation Rate (BuAc=1):** 6



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#### 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Heat will contribute to instability. Hazardous

Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid heat, flame and other sources of ignition. Contact with strong oxidizers, strong alkalis, or strong acids may cause fire and explosions. Will attack some forms of plastic, rubber, and coatings.

Conditions to Avoid: No information found.

#### 11. Toxicological Information

Inhalation rat LC50: 200 gm/m<sup>3</sup>; oral rat LD50: 5620 mg/kg; Skin rabbit LD50: > 20 ml/kg.

Investigated as a mutagen.

#### 12. Ecological Information

Environmental Fate: When released into the soil, this material may leach into groundwater. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate.

#### 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

Proper Shipping Name: ETHYL ACETATE

Hazard Class: 3

UN/NA: UN1173

Packing Group: II

#### 15. Regulatory Information

Safety, health and environmental: Ensure all national/local regulations are observed.

Regulations/legislation specific for the substance or mixture

Chemical Safety Assessment: It has not been carried out.

#### 16. Other Information

Product Use: Laboratory Reagent