# SAFETY DATA SHEET
## Acetic acid, ethyl ester {Ethyl acetate}


Printed: 06/22/2018
Revision: 06/22/2018
Supersedes Revision: 12/27/2016

## 1. Product and Company Identification

| | | |
|---|---|---|
| **Product Code:** | C000107 | |
| **Product Name:** | Acetic acid, ethyl ester {Ethyl acetate} | |
| **Company Name:** | Alpha-Tec Systems, Inc.<br>1311 SE Cardinal Ct Suite 170<br>Vancouver, WA 98683 | **Phone Number:**<br>1 (360)260-2779 |
| **Web site address:** | Alphatecsystems.com | |
| **Email address:** | Regulatory@Alphatecsystems.com | |
| **Emergency Contact:** | INFOTRAC<br>International | 00-1- (352)323-3500 |
| **Information:** | North America | 1 (800)535-5053 |
| **Product List** | Ethyl Acetate Product Codes: 0003344 and as a component of 0004043. | |

## 2. Hazards Identification

**Flammable Liquids, Category 2**
**Serious Eye Damage/Eye Irritation, Category 2A**
**Specific Target Organ Toxicity (single exposure), Category 3**

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| **GHS Signal Word:** | **Danger** |
| **GHS Hazard Phrases:** | H225 - Highly flammable liquid and vapor.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation. |
| **GHS Precaution Phrases:** | P233 - Keep container tightly closed.<br>P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P240 - Ground/bond container and receiving equipment.<br>P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.<br>P243 - Take precautionary measures against static discharge.<br>P242 - Use only non-sparking tools.<br>P264 - Wash hands thoroughly after handling.<br>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.<br>P271 - Use only outdoors or in a well-ventilated area. |
| **GHS Response Phrases:** | P370+378 - In case of fire, use ... to extinguish.<br>P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+313 - If eye irritation persists, get medical advice/attention.<br>P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P312 - Call a POISON CENTER/doctor/... if you feel unwell. |
| **GHS Storage and Disposal Phrases:** | P403+235 - Store in cool/well-ventilated place.<br>P501 - Dispose of contents/container to ...<br>P403+233 - Store container tightly closed in well-ventilated place.<br>P405 - Store locked up. |

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| **Potential Health Effects (Acute and Chronic):** | Chronic: Chronic inhalation may cause effects similar to those of acute inhalation. Animals exposed to 4300 ppm (mice) and 2000 ppm (guinea pig), 6 hours/day for 7 days developed minor blood changes & loss of appetite. There was no indication of liver or kidney injury. Rabbits exposed to 16000 mg/m3 (4440 ppm), 1 hour/day for 40 days developed secondary anemia (decreased number of red blood cells), decreased hemoglobin levels, increased numbers of macrophages, congestion and fatty degeneration of various organs, and enlargement of the spleen. A reviewer suggested that the organ damage may have been due to impurities present in the ethyl. |
| **Inhalation:** | Inhalation of high concentrations may cause narcotic effects. May be harmful if inhaled. |
| **Skin Contact:** | May cause skin irritation. Repeated or prolonged exposure may cause drying and cracking of the skin. The majority of human studies have demonstrated that ethyl acetate does not cause an allergic response on human skin. However, there is one case report of a woman developing a skin allergy to ethyl acetate. |
| **Eye Contact:** | Causes eye irritation. Vapors may cause eye irritation. |
| **Ingestion:** | May cause irritation of the digestive tract. Ingestion of large amounts may cause central nervous system depression. May cause headache, nausea, fatigue, and dizziness. These effects may be caused in part by ethanol which is released when ethyl acetate is broken down in the body. |

## 3. Composition/Information on Ingredients

| CAS # | Hazardous Components (Chemical Name) | Concentration | RTECS # |
|---|---|---|---|
| 141-78-6 | Acetic acid, ethyl ester {Ethyl acetate} | 100.0 % | AH5425000 |

## 4. First Aid Measures

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|---|---|
| **Emergency and First Aid Procedures:** | |
| **In Case of Inhalation:** | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. |
| **In Case of Skin Contact:** | In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. |
| **In Case of Eye Contact:** | In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid. |
| **In Case of Ingestion:** | If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid. |
| **Note to Physician:** | Treat symptomatically and supportively. |

## 5. Fire Fighting Measures

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|---|---|
| **Flash Pt:** | -4.00 C (24.8 F) |
| **Explosive Limits:** | LEL: No data. UEL: No data. |
| **Autoignition Pt:** | 426.00 C (798.8 F) |
| **Suitable Extinguishing Media:** | Water may be ineffective. Use water spray, alcohol foam, CO2, dry chemical. |
| **Fire Fighting Instructions:** | As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. |
| **Flammable Properties and Hazards:** | No data available. |
| **Hazardous Combustion** | No data available. |

**Products:**

## 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition. Provide ventilation. Use only non-sparking tools and equipment.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing dust, mist, or vapor.

**Precautions To Be Taken in Storing:** Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

## 8. Exposure Controls/Personal Protection

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|---|---|---|---|---|
| 141-78-6 | Acetic acid, ethyl ester {Ethyl acetate} | PEL: 400 ppm | TLV: 400 ppm | No data. |

**Respiratory Equipment (Specify Type):** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Eye Protection:** Wear chemical splash goggles.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Appearance: Clear. colorless. Odor: sweetish odor.

**pH:** No data.

**Melting Point:** -83.00 C (-117.4 F)

**Boiling Point:** 77.00 C (170.6 F)

**Flash Pt:** -4.00 C (24.8 F)

**Evaporation Rate:** No data.

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

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|---|---|
| **Specific Gravity (Water = 1):** | 0.9 |
| **Solubility in Water:** | No data. |
| **Octanol/Water Partition Coefficient:** | No data. |
| **Autoignition Pt:** | 426.00 C (798.8 F) |
| **Decomposition Temperature:** | No data. |
| **Viscosity:** | No data. |

## 10. Stability and Reactivity

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|---|---|
| **Stability:** | Unstable [ ] Stable [ X ] |
| **Conditions To Avoid - Instability:** | ignition sources, Moisture, Excess heat, attacks some plastics, rubber, and coatings. |
| **Incompatibility - Materials To Avoid:** | Strong oxidizing agents, Strong acids, Strong bases. |
| **Hazardous Decomposition or Byproducts:** | Carbon monoxide, Carbon dioxide, ethyl alcohol. |
| **Possibility of Hazardous Reactions:** | Will occur [ ] Will not occur [ X ] |
| **Conditions To Avoid - Hazardous Reactions:** | No data available. |

## 11. Toxicological Information

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|---|---|
| **Toxicological Information:** | No data available. |
| **Carcinogenicity/Other Information:** | CAS# 141-78-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. |

## 12. Ecological Information

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|---|---|
| **General Ecological Information:** | Environmental: Terrestrial: Expected to have high mobility in soil. Volatilization of ethyl acetate from moist soil surfaces is expected to be important. Aquatic: Not expected to adsorb into suspended solids or sediments. Atmospheric: Expected to exist solely as a vapor in the ambient atmosphere. Vapor-phase ethyl acetate is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 10 days.<br>Physical: Substance biodegrades at a high rate with little bioconcentration. |

## 13. Disposal Considerations

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| **Waste Disposal Method:** | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.<br>RCRA P-Series: None listed.<br>RCRA U-Series:<br>CAS# 141-78-6: waste number U112 (Ignitable waste). |

## 14. Transport Information

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|---|---|
| **GHS Classification:** | Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor<br>Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation<br>Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness |

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Ethyl acetate.
**DOT Hazard Class:** 3 FLAMMABLE LIQUID
**UN/NA Number:** UN1173 **Packing Group:** II


**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** ETHYL ACETATE.
**UN Number:** 1173 **Packing Group:** II
**Hazard Class:** 3 - FLAMMABLE LIQUID **TDG Classification:**

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Ethyl acetate.

## 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|---|---|---|---|---|
| 141-78-6 | Acetic acid, ethyl ester {Ethyl acetate} | No | Yes 5000 LB | No |

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

| | | | |
|---|---|---|---|
| [ ] Yes [X] No | Explosive | [ ] Yes [X] No | Acute toxicity (any route of exposure) |
| [ ] Yes [X] No | Flammable (gases, aerosols, liquid, or solid) | [ ] Yes [X] No | Skin Corrosion or Irritation |
| [ ] Yes [X] No | Oxidizer (liquid, solid or gas) | [X] Yes [ ] No | Serious eye damage or eye irritation |
| [ ] Yes [X] No | Self-reactive | [ ] Yes [X] No | Respiratory or Skin Sensitization |
| [ ] Yes [X] No | Pyrophoric (liquid or solid) | [ ] Yes [X] No | Germ cell mutagenicity |
| [ ] Yes [X] No | Pyrophoric gas | [ ] Yes [X] No | Carcinogenicity |
| [ ] Yes [X] No | Self-heating | [ ] Yes [X] No | Reproductive toxicity |
| [ ] Yes [X] No | Organic peroxide | [X] Yes [ ] No | Specific target organ toxicity (single or repeated exposure) |
| [ ] Yes [X] No | Corrosive to metal | [ ] Yes [X] No | Aspiration Hazard |
| [ ] Yes [X] No | Gas under pressure (compressed gas) | [ ] Yes [X] No | Simple Asphyxiant |
| [ ] Yes [X] No | In contact with water emits flammable gas | [ ] Yes [X] No | (Health) Hazard Not Otherwise Classified (HNOC) |
| [ ] Yes [X] No | Combustible Dust | | |
| [ ] Yes [X] No | (Physical) Hazard Not Otherwise Classified (HNOC) | | |

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|---|---|---|
| 141-78-6 | Acetic acid, ethyl ester {Ethyl acetate} | CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - E |

## 16. Other Information

**Revision Date:** 06/22/2018
**Preparer Name:** Tim Meehan

**Additional Information About This Product:** No data available.

**Document & Change Control Number** SDS0061.C.1 CC17-360.

**Company Policy or Disclaimer:** Disclaimer
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