

# Ethyl Propionate

## Material Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** Ethyl Propionate

**Product Code** EX0835

**Manufacturer** EMD Chemicals Inc.

P.O. Box 70  
480 Democrat Road  
Gibbstown, NJ 08027

**Effective Date** 3/3/2003

Prior to January 1, 2003 EMD Chemicals Inc. was  
EM Industries, Inc. or EM Science, Division of  
EM Industries, Inc.

#### For More Information Call

856-423-6300 Technical Service  
Monday-Friday: 8:00 AM - 5:00 PM

#### In Case of Emergency Call

800-424-9300 CHEMTREC  
(USA)  
613-996-6666 CANUTEC  
(Canada)  
24 Hours/Day: 7 Days/Week

**Synonym** PROPIONIC ACID ETHYL ESTER

**Material Uses** Analytical reagent.

**Chemical Family** Ester.

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### Section 2. Composition and Information on Ingredients

<b>Component</b>	<b>CAS #</b>	<b>% by Weight</b>
ETHYL PROPIONATE	105-37-3	100

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### Section 3. Hazards Identification

**Physical State and Appearance** Liquid.

**Emergency Overview** WARNING!  
FLAMMABLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FLASH FIRE.  
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE  
FOLLOWING ORGANS: SKIN.

**Routes of Entry** Inhalation. Ingestion.

#### Potential Acute Health Effects

**Eyes** Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

**Skin** Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** Hazardous in case of inhalation (lung irritant).

**Ingestion** Non-hazardous in the case of ingestion.

#### Potential Chronic Health Effects

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

**Medical Conditions** Repeated or prolonged exposure is not known to aggravate medical

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**Aggravated by  
Overexposure:** condition.

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### Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

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### Section 5. Fire Fighting Measures

**Flammability of the Product** Product will burn.

**Auto-ignition Temperature** 439.9°C (823.8°F)

**Flash Points** Closed cup: 11.9°C (53.4°F).

**Flammable Limits** LOWER: 1.9% UPPER: 11%

**Products of Combustion** These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire Hazards in Presence of Various Substances** Highly flammable in presence of open flames, sparks and static discharge, of heat, of oxidizing materials.

**Explosion Hazards in Presence of Various Substances** **Risks of explosion of the product in presence of static discharge:**  
Highly flammable in presence of open flames, sparks and static discharge.  
**Risks of explosion of the product in presence of mechanical impact:**  
No.

**Fire Fighting Media and Instructions** SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

**Protective Clothing (Fire)** Be sure to use an approved/certified respirator or equivalent.

**Special Remarks on Fire Hazards** Not available.

**Special Remarks on Explosion Hazards** Not available.

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### Section 6. Accidental Release Measures

**Small Spill and** Dilute with water and mop up, or absorb with an inert dry material and

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<b>Leak</b>	place in an appropriate waste disposal container.
<b>Large Spill and Leak</b>	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.
<b>Spill Kit Information</b>	The following EMD Chemicals Inc. SpillSolv® absorbent is recommended for this product: SX1330 Solvent Treatment Kit

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### Section 7. Handling and Storage

<b>Handling</b>	Keep away from heat, sparks and flame. Keep container closed. Do not get in eyes, on skin, or on clothing. Do not ingest. Avoid breathing vapors or spray mists.
<b>Storage</b>	Keep container in a cool, well-ventilated area.

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### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Personal Protection</b>	
<b>Eyes</b>	Splash goggles.
<b>Body</b>	Lab coat.
<b>Respiratory</b>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
<b>Hands</b>	Gloves.
<b>Feet</b>	Not applicable.
<b>Protective Clothing (Pictograms)</b>	
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Product Name</b>	<b>Exposure Limits</b>
ETHYL PROPIONATE	Not available.

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### Section 9. Physical and Chemical Properties

<b>Odor</b>	Pineapple.
<b>Color</b>	Colorless.
<b>Physical State and Appearance</b>	Liquid.
<b>Molecular Weight</b>	102.15 g/mole
<b>Molecular Formula</b>	C5-H10-O2
<b>pH</b>	Not available.
<b>Boiling/Condensation Point</b>	98.9°C (210°F)
<b>Melting/Freezing Point</b>	-72.7°C (-98.9°F)
<b>Specific Gravity</b>	0.9 (Water = 1)
<b>Vapor Pressure</b>	Not available.
<b>Vapor Density</b>	3.5 (Air = 1)

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<b>Odor Threshold</b>	Not available.
<b>Evaporation Rate</b>	Not available.
<b>LogKow</b>	Not available.
<b>Solubility</b>	Partially soluble in water.

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### Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Reactive with oxidizing agents.
<b>Rem/Incompatibility</b>	Not available.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )
<b>Hazardous Polymerization</b>	Will not occur.

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### Section 11. Toxicological Information

#### RTECS Number:

Ethyl Propionate, For Synthesis      UF3675000

<b>Toxicity</b>	Acute oral toxicity (LD50): 8732 mg/kg [Rat].
<b>Chronic Effects on Humans</b>	Not available.
<b>Acute Effects on Humans</b>	Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). Non-hazardous in the case of ingestion.
<b>Synergetic Products (Toxicologically)</b>	Not available.
<b>Irritancy</b>	Draize Test (Rabbit): Skin: 500mg/24h. Reaction: Moderate. Eye: 100 mg mod , time not available
<b>Sensitization</b>	Not available.
<b>Carcinogenic Effects</b>	This material is not known to cause cancer in animals or humans.
<b>Toxicity to Reproductive System</b>	Not available.
<b>Teratogenic Effects</b>	Not available.
<b>Mutagenic Effects</b>	Not available.

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### Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available.
<b>BOD5 and COD</b>	Not available.
<b>Toxicity of the Products of Biodegradation</b>	The product itself and its products of degradation are not toxic.

**Section 13. Disposal Considerations**

<b>EPA Waste Number</b>	D001
<b>Treatment</b>	Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD) for permissible treatment sites. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

**Section 14. Transport Information**

<b>DOT Classification</b>	Not available.
<b>TDG Classification</b>	Not available.
<b>IMO/IMDG Classification</b>	Not available.
<b>ICAO/IATA Classification</b>	Not available.

**Section 15. Regulatory Information**

<b>U.S. Federal Regulations</b>	TSCA 8(b) inventory: ETHYL PROPIONATE  SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: ETHYL PROPIONATE SARA 311/312 MSDS distribution – chemical inventory – hazard identification: ETHYL PROPIONATE: Fire Hazard, Immediate (Acute) Health Hazard SARA 313 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
<b>WHMIS (Canada)</b>	CLASS B–2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D–2B: Material causing other toxic effects (TOXIC). CEPA DSL: ETHYL PROPIONATE This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.
<b>International Regulations</b>	
<b>EINECS</b>	ETHYL PROPIONATE 203–291–4
<b>DSCL (EEC)</b>	R11– Highly flammable.
<b>International</b>	Australia (NICNAS): ETHYL PROPIONATE

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### Lists

Japan (MITI): ETHYL PROPIONATE

Japan (MOL): ETHYL PROPIONATE

Korea (TCCL): ETHYL PROPIONATE

Philippines (RA6969): ETHYL PROPIONATE

China: No products were found.

**State Regulations** Pennsylvania RTK: ETHYL PROPIONATE: (generic environmental hazard)

Massachusetts RTK: ETHYL PROPIONATE

New Jersey: ETHYL PROPIONATE

California prop. 65: No products were found.

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### Section 16. Other Information

**National Fire  
Protection  
Association  
(U.S.A.)**

**3 Fire  
10 Hazard  
Health  
Reactivity  
Specific  
Hazard**

**Changed Since Last  
Revision** +

#### Notice to Reader

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