



Health
Fire
Reactivity
Personal Protection

## MATERIAL SAFETY DATA SHEET

(E)-3-Methoxy-2-butenic acid methyl ester

### MSDS

#### Section 1: Chemical Product and Company Identification

**Catalog ID:** M5601

**Product Name:** (E)-3-Methoxy-2-butenic acid methyl ester

**CAS:** 4525-28-4

**RTECS:**

**TSCA:** Not TSCA regulated

**Synonym:**

**Chemical Name:**

**Chemical Formula:** C<sub>6</sub>H<sub>10</sub>O<sub>3</sub>

**Contact Information:**

**Synthonix, Inc.**  
2713 Connector Drive  
Wake Forest, NC 27587

Ph: 1-919-875-9277

**CHEMTREC (24HR EMERGENCY TELEPHONE),**  
call: 1-800-424-9300

**International CHEMTREC, call: 1-703-527-3887**

#### Section 2: Composition and Information on Ingredients

**Composition:**

Name:	CAS #	% by Weight
(E)-3-Methoxy-2-butenic acid methyl ester	4525-28-4	100%

**Toxicological Data on Ingredients:**

Not available

#### Section 3: Hazards Identification

**Potential Acute Health Effects:**

Not available

**Potential Chronic Health Effects:**

Not available

**Section 4: First Aid Measures****Eye Contact:**

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**Skin Contact:**

In case of contact, immediately wash skin with soap and copious amounts of water.

**Serious Skin Contact:**

In case of contact, immediately wash skin with soap and copious amounts of water. Seek medical attention immediately.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Serious Inhalation:**

Not available

**Ingestion:**

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Wash contaminated clothing before reuse.

**Serious Ingestion:**

Not available

**Section 5: Fire and Explosion Data**

**Flammability of the Product:** Not available

**Auto-Ignition Temperature:** Not available

**Flash Points:** Not available

**Flammable Limits:** Not available

**Products of Combustion:** Not available

**Fire Hazards in Presence of Various Substances:** Not available

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available

Risks of explosion of the product in presence of static discharge: Not available

**Fire Fighting Media and Instructions:** N/A

**Special Remarks on Fire Hazards:**

Not available

**Special Remarks on Explosion Hazards:**

Not available

**Section 6: Accidental Release Measures**

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:**

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

**Section 7: Handling and Storage****Precautions:**

Keep container dry. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles chemicals.

**Storage:** Keep container tightly closed. Keep container in a cool refrigerated, well-ventilated area. Moisture sensitive.

**Section 8: Exposure Controls/Personal Protection****Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:**

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear approved gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Vapor and dust 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.

**Exposure Limits:**

Not available.

**Section 9: Physical and Chemical Properties****Physical state and appearance:**

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 130.14g/mole

**Color:**

**pH (1% soln/water):** Not available.

**Boiling Point:** Not available.

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:**

Not available.

**Section 10: Stability and Reactivity Data**

**Stability:**

**Instability Temperature:** Not available.

**Conditions of Instability:**

Not available.

**Incompatibility with various substances:** Not available.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:**

Not available.

**Special Remarks on Corrosivity:**

Not available.

**Polymerization:** Not available.

**Section 11: Toxicological Information**

**Routes of Entry:** Unknown.

**Toxicity to Animals:** Unknown.

**Chronic Effects on Humans:**

Not available.

**Other Toxic Effects on Humans:**

Not available.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

Not available.

**Special Remarks on other Toxic Effects on Humans:**

Not available.

**Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Unknown

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:**

Not available.

**Section 13: Disposal Considerations****Waste Disposal:**

Waste must be disposed of in accordance with all federal, state, and local environmental control regulations.

**Section 14: Transport Information**

**DOT Classification:** Not available.

**Identification:**

Not available.

**Special Provisions for Transport:** Not available.

**Section 15: Other Regulatory Information****Federal and State Regulations:**

Not Available.

**Other Regulations:** Not Available.

**Other Classifications:****WHMIS (Canada):**

Not Available.

**DSCL (EEC):**

Not Available.

**HMIS (U.S.A.):**

**Health Hazard:**

**Fire Hazard:**

**Reactivity:**

**Personal Protection:**

**National Fire Protection Association (U.S.A.):****Health:****Fire:****Reactivity:****Specific Hazard:** N/A**Protective Equipment:**

N/A

**Section 16: Other Information****References:** N/A**Other Special Considerations:** N/A**Created:****Last Updated:**

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