



# SILVER FERN CHEMICAL

## Material Safety Data Sheet

### Ethanol, 2-Butoxy-, Acetate (2-Butoxyethyl Acetate)

#### SECTION 1: IDENTIFICATION

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**Product Name:** EB Acetate

**CAS Number:** 112-07-2

**Chemical Name:** Ethanol, 2-butoxy-, acetate

**Synonyms:** Butyl Cellosolve Acetate; 2-Butoxyethanol acetate; Acetic acid, 2-butoxyethyl ester; Butyl Cellosolve acetate; Ethylene glycol monobutyl ether acetate

**Company**

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#### SECTION 2: HAZARD IDENTIFICATION

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**Potential Acute Health Effects:**

Hazardous in case of skin contact (permeator), or ingestion. Slightly hazardous in case of skin contact (irritant), or eye contact (irritant), or inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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**Composition:**

Name	CAS #	% by Weight
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Ethanol, 2-butoxy-, acetate      112-07-2      100

**Toxicological Data on Ingredients:** 2-Butoxyethyl acetate: ORAL (LD50): Acute: 2400 mg/kg [Rat]. 3200 mg/kg [Mouse]. DERMAL (LD50): Acute: 1500 mg/kg [Rabbit].

#### SECTION 4: FIRST AID MEASURES

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**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 if irritation occurs.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:**

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

**Serious Inhalation:** Not available.

**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.

**Serious Ingestion:** Not available.

#### SECTION 5: FIRE FIGHTING MEASURES

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**Flammability of the Product:** Combustible.

**Auto-Ignition Temperature:** 340°C (644°F)

**Flash Points:** CLOSED CUP: 71.111°C (160°F). OPEN CUP: 87.78°C (190°F).



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**Flammable Limits:** LOWER: 0.88%

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

**Fire Hazards in Presence of Various Substances:** Flammable in presence of open flames and sparks, of heat, of oxidizing materials.

**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:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** When heated to decomposition it emits acrid smoke and irritating fumes.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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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. Do not flush to sewer!

## SECTION 7: HANDLING AND STORAGE

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Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the



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work-station location.

**Personal Protection:**

Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

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

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.

**Exposure Limits:**

TWA: 5 from NIOSH

TWA: 33 (mg/m<sup>3</sup>) from NIOSH

Consult local authorities for acceptable exposure limits.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**Physical state and appearance:** Liquid.

**Odor:** Fruity.

**Taste:** Not available.

**Molecular Weight:** 160.21 g/mole

**Color:** Clear Colorless.

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

**Boiling Point:** 191.3°C (376.3°F)

**Melting Point:** -63.5°C (-82.3°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 0.9422 (Water = 1)

**Vapor Pressure:** 0 kPa (@ 20°C)



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**Vapor Density:** 5.5 (Air = 1)

**Volatility:** Not available.

**Odor Threshold:** Not available.

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

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

**Dispersion Properties:** See solubility in water.

**Solubility:**

Soluble in cold water.

Solubility in water @ 20 deg. C: 15000 mg/l.

Soluble in hydrocarbons and organic solvents

## SECTION 10: STABILITY AND REACTIVITY

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**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Heat, ignition sources (sparks, flames), incompatible materials

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

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**Routes of Entry:** Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:**



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Acute oral toxicity (LD50): 2400 mg/kg [Rat].  
Acute dermal toxicity (LD50): 1500 mg/kg [Rabbit].

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (permeator), of ingestion.  
Slightly hazardous in case of skin contact (irritant), of inhalation.

**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:**

Acute Potential Health Effects:

Skin: May cause mild skin irritation. It can be absorbed through the skin may affect the kidneys (hematuria), blood (normocytic anemia) and other systemic effects.

Eyes: May cause mild eye irritation.

Inhalation: May cause respiratory tract irritation. It may also affect behavior/central nervous system with nausea, vomiting, headache and other CNS effects.

Ingestion: May cause digestive tract irritation with nausea, vomiting, diarrhea. May affect the kidneys (Albuminuria, Hematuria), and behavior/central nervous system (headache, drowsiness, slurred speech, recrudescence stuttering, staggering gait, tremor, changes in personality, blurred vision).

Chronic Potential Health Effects:

Ingestion: Prolonged or repeated ingestion may affect the urinary system.

## SECTION 12: ECOLOGICAL INFORMATION

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**Environmental Fate:**

When released into the soil, this material is expected to leach into groundwater. When released into the soil, this



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material may evaporate to a moderate extent. When released into water, this material may evaporate to a moderate extent. This material has an estimated bioconcentration factor (BCF) of less than 100. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

**Environmental Toxicity:**

No information found.

#### SECTION 13: DISPOSAL CONSIDERATIONS

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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### SECTION 14: TRANSPORT INFORMATION

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Not regulated.

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

#### SECTION 15: REGULATORY INFORMATION

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**Federal and State Regulations:** TSCA 8(b) inventory: 2-Butoxyethyl acetate

**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):**

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).



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#### DSCL (EEC):

R20/21- Harmful by inhalation and in contact with skin.

S24- Avoid contact with skin.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

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

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: g

#### National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 2

Reactivity: 0

Specific hazard:

#### Protective Equipment:

Gloves.

Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Safety glasses.

## SECTION 16: OTHER INFORMATION

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Created: 10/09/2005





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**Last Updated:** 10/09/2005

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