



Safety Data Sheet

E5 Liquid Fly Ash

Prepared in compliance with Australian WHS Regulations under GHS 7

Section 1. Identification

- **Product Identifier:** E5 Liquid Fly Ash
- **Other Means of Identification:** E5-LFA
- **Recommended Use of the Chemical and Restrictions on Use:**
 - Additive for concrete applications.
 - Restrictions on use: Not suitable for applications other than concrete.
- **Details of the Manufacturer or Importer:**
 - **Manufacturer:**
Specification Products
1718 Pleasant Street
Noblesville, IN 46060
United States of America
 - **Importer:**
McClay Industries Pty Ltd
15 Kitney Close, Tanawha
QLD 4556
- **Emergency Phone Number:**
 - **Manufacturer (USA):** +1-888-881-1726
 - **Importer (Australia):** 1300 443 549

Section 2. Hazard(s) Identification

- **Classification of the Hazardous Chemical:**
 - Not classified as hazardous under GHS 7 and Australian WHS Regulations.
- **Label Elements, Including Precautionary Statements:**
 - **GHS Label Elements:** Not applicable as product is non-hazardous.
 - **Precautionary Statements:** Not applicable.

Section 3. Composition/Information on Ingredients

- **Chemical Identity and Ingredient Names:**
 - Common Name: Synthetic Amorphous Silica, aqueous colloidal solution
 - Chemical Name: Silicon Dioxide (CAS-No. 7631-86-9)
 - **Use of Generic Names:** Not applicable as the specific chemical identity is disclosed.
 - **Proportion of Ingredients:** 10-30% by weight. Proprietary concentration (compliant with regulatory trade secret requirements).
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Section 4. First Aid Measures

- **Description of Necessary First Aid Measures:**
 - **Inhalation:** Move to fresh air if inhaled. If symptoms persist, seek medical advice.
 - **Skin Contact:** Rinse thoroughly with water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms persist.
 - **Symptoms Caused by Exposure:**
 - Short-term exposure may cause mild irritation of the respiratory tract, skin, or eyes.
 - **Medical Attention and Special Treatment:** Treat symptomatically.
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Section 5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
 - **Specific Hazards Arising from the Chemical:**
 - This product is not classified as flammable or explosive.
 - In a fire, it may produce toxic fumes, including silicon oxides.
 - **Special Protective Equipment and Precautions for Firefighters:**
 - Firefighters should wear self-contained breathing apparatus and full protective gear.
 - Move containers from fire area if safe to do so.
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Section 6. Accidental Release Measures

- **Personal Precautions, Protective Equipment, and Emergency Procedures:**
 - Avoid breathing vapors or dust if solution has dried.
 - Use appropriate personal protective equipment (PPE) (see Section 8).
 - **Environmental Precautions:**
 - Avoid release into drains, watercourses, and soil.
 - **Methods and Materials for Containment and Cleaning Up:**
 - Contain spillage and absorb with non-combustible material (e.g., sand or earth) for disposal according to local regulations.
 - Dispose of waste in accordance with Section 13.
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Section 7. Handling and Storage

- **Precautions for Safe Handling:**
 - Avoid creating aerosol or dust when handling the dried product.
 - Use appropriate PPE as outlined in Section 8.
 - General hygiene practices: Do not eat, drink, or smoke while handling the product. Wash hands thoroughly after handling.
- **Conditions for Safe Storage, Including Any Incompatibilities:**
 - Store in a dry, cool place. Keep away from direct sunlight and sources of heat.

- Incompatible with metals such as copper, mild steel, and aluminum. Store away from incompatible materials.

Section 8. Exposure Controls and Personal Protection

- **Exposure Control Measures:**
 - No specific exposure standards provided by Safe Work Australia for this mixture.
- **Biological Monitoring:**
 - Not applicable for this non-hazardous mixture.
- **Engineering Controls:**
 - Use local or general exhaust ventilation to maintain airborne concentrations below exposure limits.
- **Individual Protection Measures (PPE):**
 - **Eye Protection:** Safety goggles or face shield recommended.
 - **Hand Protection:** Use gloves made of PVC or rubber.
 - **Respiratory Protection:** Not normally required. If mist or dust forms, wear a mask with a suitable filter.
 - **Skin Protection:** Protective clothing as needed to minimize skin exposure.

Section 9. Physical and Chemical Properties

- **Appearance:** Liquid
- **Color:** Clear to white
- **Odor:** None
- **pH:** 8–10.5
- **Melting Point/Freezing Point:** ~0 °C
- **Boiling Point:** ~100 °C
- **Flash Point:** Not applicable
- **Flammability:** Not flammable
- **Vapor Pressure:** Similar to water
- **Relative Density:** 1.0–1.5
- **Solubility:** Miscible in water
- **Viscosity:** < 100 cPs at 25 °C

Section 10. Stability and Reactivity

- **Reactivity:** Stable under normal conditions.
- **Chemical Stability:** Stable if stored and handled correctly.
- **Possibility of Hazardous Reactions:** No hazardous reactions expected under normal use.
- **Conditions to Avoid:** Avoid drying of solution, which can lead to dust formation.
- **Incompatible Materials:** Avoid contact with copper, mild steel, and aluminium.
- **Hazardous Decomposition Products:** Silicon oxides may be formed at high temperatures.

Section 11. Toxicological Information

- **Acute Toxicity:**
 - Oral (Rat): LD50 > 1000 mg/kg – Not acutely toxic.

- **Skin Corrosion/Irritation:** Not classified as irritating.
- **Serious Eye Damage/Irritation:** May cause mild irritation.
- **Respiratory or Skin Sensitization:** Not classified.
- **Carcinogenicity:** Not classified by IARC or other regulatory bodies.
- **Aspiration Hazard:** Not classified.

Section 12. Ecological Information

- **Ecotoxicity:**
 - Fish (LC50, 96 hr): > 10,000 mg/L
 - Daphnia (EC50, 24 hr): > 10,000 mg/L
- **Persistence and Degradability:** Not biodegradable (inorganic material).
- **Bioaccumulative Potential:** Bioaccumulation is not expected.
- **Mobility in Soil:** Limited mobility; soluble in water.
- **Other Adverse Effects:** None known.

Section 13. Disposal Considerations

- **Disposal Methods:**
 - Dispose of contents/container in accordance with local/regional/national regulations.
 - Rinse empty containers and recycle if possible; otherwise, dispose of via approved waste handler.

Section 14. Transport Information

- **UN Number:** Not applicable
- **UN Proper Shipping Name:** E5 Liquid Fly Ash
- **Transport Hazard Class(es):** Not regulated
- **Packing Group:** Not regulated
- **Environmental Hazards:** Not applicable
- **Special Precautions for User:** None
- **Hazchem or Emergency Action Code:** Not applicable

Section 15. Regulatory Information

- **Safety, Health, and Environmental Regulations:**
 - **AICS:** All components are listed on the Australian Inventory of Chemical Substances.
 - **WHS Regulations Compliance:** Product is compliant with the Work Health and Safety Regulations (WHS) under GHS 7.

Section 16. Other Information

- **Date of Preparation or Last Revision:** September 2025
- **Key Abbreviations and Acronyms:**
 - **AICS:** Australian Inventory of Chemical Substances
 - **GHS:** Globally Harmonized System (for classification and labelling of chemicals)
 - **LD50:** Lethal Dose, 50% (the dose required to kill half the members of a tested population)

- **LC50:** Lethal Concentration, 50% (the concentration required to kill half the members of a tested population in a specified time)
 - **PPE:** Personal Protective Equipment
- **Disclaimer:** This information is provided in good faith based on current data. No warranty is expressed or implied regarding its accuracy or fitness for a particular purpose.