



## E5 Liquid Fly Ash

Revision Date: 1 September 2021

### 1. IDENTIFICATION

**PRODUCT NAME:** Liquid Fly Ash  
**IDENTIFICATION NUMBER:** E5-LFA  
**PRODUCT USE/CLASS:** Concrete Admixture

**Manufacturer:**

Specification Products  
 1718 Pleasant Street  
 Noblesville, IN 46060  
 Emergency Contact: 1-888-881-1726

### 2. HAZARDS

**Classification:** Product is not classified as hazardous under GHS criteria or OSHA Hazard Communication Standard (29 CFR 1910.1200)

**GHS Label Elements:**

**Symbol(s):** None

**Signal Word(s):** None

**Hazard statement(s):** None

**Precautionary statement(s):**

<b>Prevention:</b>	P261	Avoid breathing dust/mists
	P264	Wash hands thoroughly after handling
	P280	Wear protective gloves/clothing/eye/face protection
<b>Response:</b>	P330	Rinse mouth
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P332+P313	If skin irritation occurs: Get medical advice/attention.
	P362	Take off contaminated clothing and wash before reuse.
	P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
<b>Storage:</b>	P314	Get medical advice/attention if you feel unwell.
	P402+P404	Store in a dry place. Store in a closed container.
	P501	Dispose of contents/container according to all applicable Local/State/Federal regulations.

**E5 Liquid Fly Ash****3. COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENT NAME	CONCENTRATION (% BY WT)
Sythetic Amorphous Silica CAS #: 7631-86-9	Proprietary %

**Other Comments:** For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES****First Aid Measures:****Eye:**

Remove any contact lenses if easily done. Immediately flush eyes with plenty of water.  
Get medical attention, if irritation persists.

**Skin:**

Wash with soap and water. Get medical attention if irritation develops or persists..

**Inhalation:**

In case product dust is released: Possible discomfort via coughing and sneezing. Remove to fresh air.

**Oral:**

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water.  
In case of discomfort, obtain medical attention.

**Most Important Symptoms/Effects:**

None known.

## E5 Liquid Fly Ash

### Notes to Physician:

No hazards which require special first aid-measures.

## 5. FIRE FIGHTING MEASURES

**Flammability assessment:** Not Flammable

**Unsuitable extinguishing media:** None known

**Specific firefighting measures:** All extinguishing methods are suitable for any firefighting in are of product storage or use.

**Specific hazards during firefighting:** None Known

**Special protective equipment and Precautions for firefighters:** As in any fire, wear self-contained positive presure breathing apparatus, (MSHA/NIOSH approved or equivalent) an full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

Wear personal protective equipment. See section 8.

### Methods and materials for containment and cleaning up:

Collect using pump or absorbent. Place material into properly labeled sealed containers.  
After cleaning, rinse area with water. No special environmental precautions are required.  
Dispose of material in accordance with local regulations.

## 7. HANDLING AND STORAGE

### Precautions for safely handling:

Wear personal protective equipment. Avoid formation of respirable particles. Avoid inhalation of dust.  
Do not breathe dust or mist. Avoid direct contact with eyes, skin, or clothing.  
Wash hands before breaks and at the end of the day.

### Conditions for safe storing:

Keep from Freezing. Keep container closed in a dry, cool place when not in use. Avoid dust formation.  
Provide appropriate exhaust ventilation where dust is formed.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Component	CAS #	OSHA PEL		ACGIH TLV		NIOSH REL		FORM
		TWA	CEILING	TWA	STEL	TLV-TWA	SKIN	
Silica, Amorphous	7631-86-9	0.8 mg/m <sup>3</sup>	20 mppcf					Powder
Dust	N/A		10 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>			Dust

**Engineering Controls:**

Local Ventilation: Provide adequate exhaust ventilation to keep dust concentration below occupational exposure guidelines. (3mg/m<sup>3</sup>).

General Ventilation: Recommended

**Personal Protective Equipment for Routine Handling and Spills:****Eyes:**

Wear safety glasses with side shields (or goggles) and a face shield.

**Skin:**

The glove(s) listed below may provide protection against permeation.

**Suitable Gloves:**

Rubber, leather, latex, nitrile

**Inhalation/Suitable Respirator:**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Precautionary Measures:**

Wash hands before eating or smoking. Remove contaminated clothing and wash before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Flash Point:</b>	NA
<b>Flammability Limits in Air:</b>	NA
<b>Lower</b>	NA
<b>Upper Limit</b>	NA
<b>Auto-ignition Temperature:</b>	NA
<b>Decomposition Temperature:</b>	NA
<b>Flammability:</b>	Non-flammable
<b>Appearance:</b>	Clear to white liquid
<b>Odor:</b>	None
<b>Odor Threshold:</b>	NA
<b>pH (Neat @ 25°C)</b>	8-10.5
<b>Melting/Freezing Point:</b>	32°F / 0°C
<b>Boiling Point:</b>	212°F / 100°C
<b>Evaporation Rate:</b>	Equal to water
<b>Viscosity @ 25°C:</b>	< 100 cPs
<b>Volatile Organic %:</b>	ND
<b>Vapor Pressure:</b>	NA
<b>Vapor Density (Air=1):</b>	ND
<b>Bulk Density @ 25°C:</b>	NA
<b>Relative Density @ 25°C:</b>	1.0-1.5
<b>Solubility in Water:</b>	Miscible
<b>Partition Coefficient (ln.-octanol/water):</b>	NA

The Physical data presented here are representative values, as the actual product's values may vary slightly.

**10. STABILITY AND REACTIVITY****Reactivity:**

Not expected

**Chemical stability:**

Stable under normal \storage/use conditions

**Possibility of hazardous reactions:**

None known

**Conditions to avoid:**

None known

**Incompatible materials:**

None known

**Hazardous decomposition products:**

None known

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity:**

<b>Oral:</b>	LD50 Rat: >1000 mg/kg
<b>Dermal:</b>	LD50 Rat: >2000 mg/kg
<b>Inhalation:</b>	Information not available
<b>Skin corrosion/irritation:</b>	Rabbit: Not irritating
<b>Serious eye damage/irritation:</b>	Rabbit: Not irritating
<b>Respiratory sensitization:</b>	Silicosis or other product specific illness or the respiratory tract has not been reported.
<b>Skin sensitization:</b>	Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash).
<b>Specific Target Organ Toxicity (single exposure):</b>	Information not available
<b>Aspiration hazard:</b>	Information not available

**Chronic Effects:**

<b>Germ cell mutagenicity:</b>	Negative
<b>Carcinogenicity:</b>	Not expected
<b>Reproductive toxicity:</b>	Not expected
<b>Specific Target Organ Toxicity (repeated exposure):</b>	Not determined

**Likely Routes of Exposure/Symptoms:**

<b>Eyes:</b>	May cause eye irritation
<b>Skin:</b>	Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash).
<b>Inhalation:</b>	Prolonged inhalation may cause irritations of the respiratory tract.
<b>Oral:</b>	No hazard expected in normal use

**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

Toxicity to fish:LC50 (Brachrdanio reio):  
>10000 mg/l /96 hr. Method: OECD 203

Toxicity to daphnia:EC50 Daphnia magna:  
>10000 mg/l /24 hr. Method: OECD 202

**Persistence and degradability:**

Solids removed from water by sedimentation or binding to sludge.

**Bioaccumulative potential:**

Solution is not expected to bio-accumulate.

**Mobility in soil:**

Not expected

**Other adverse effects:**

Increase in TSS. Materials can be removed by sedimentation or flocculation into sludge.

**13. DISPOSABLE CONSIDERATIONS****Disposal considerations:**

Dispose as dry waste in accordance with all local, state and federal regulations.

**Empty container warnings:**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

**14. TRANSPORT INFORMATION**

**DOT Road Shipment Information (49 CFR 172.101): Not regulated by DOT, IMDG, ICAO/IATA**

**UN Number:**

**DOT Proper Shipping Name:**

**DOT Technical Name:**

**DOT Hazard Class(es):**

**DOT Packing Group:**

**Marine Pollutant:**

**Air Shipment (IATA):**

Not regulated by DOT, IMDG, ICAO/IATA.

**Ocean Shipment (IMDG):**

Not regulated by DOT, IMDG, ICAO/IATA.

**Transport in bulk:**

Not regulated by DOT, IMDG, ICAO/IATA.

**Special Precautions:**

Not expected to be needed

**15. REGULATORY INFORMATION****International Chemical Inventory Status:**

**USA (TSCA):**

Components of this product are listed

**DSL:**

Components of this product are listed

**EINICS:**

Components of this product are listed

**AICS:**

Components of this product are listed

**CANDIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations expect for the use of the 16 headings.

**CANDIAN WHMIS CLASS:**

Not a WHMIS control material.

**EPA SARA Title III Chemical Listings:****Section 302 Extremely Hazardous Substances:**

Component Name	CAS Number	wt%	Hazard
None			

**Section 304 CERCLA Hazardous Substances:**

Component Name	CAS Number	wt%	Reportable Quantity (#)
None			

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Chronic:  Yes  No  
 Chronic:  Yes  No  
 Fire:  Yes  No  
 Pressure:  Yes  No  
 Reactivity:  Yes  No

**Section 313 Toxic Chemicals:** Only chemicals which exceed the reporting threshold are included below: **N/A**

Component Name	CAS Number	wt%
None		

**Other Regulatory Concerns:**

State right to know:

Components	CAS Number	CA Prop 65	NJ	PA	MA
Silica, Amorphous	7631-86-9		X	X	X
Product		No			

**16. OTHER INFORMATION**

Revision date: **1 September 2021**  
 Reason for change: **Initial Publication**  
 Revised by: **MTJ**  
 Reviewed by: **MJ**  
 Approval date: **1 September 2021**  
 Version: **1.0**

	Health	Fire	Reactivity	Special
HMIS:	1	0	0	

**Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information in the SDS must be considered.**

**HMIS = Hazardous Material Information System**

**\*Chronic effect**

**Disclaimer:** This safety data sheet (SDS) was prepared in accordance with the 29 CFR 1910.1200. The information contained herein is based upon data available to us and reflects our best professional judgement. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. We assume no legal responsibility whatsoever for any damage resulting from reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application, storage, or disposal situation.