



FRITZ-PAK CORPORATION

Safety Data Sheet FR-1

SECTION 1: Identification

1.1 Product identifier

Product name	FR-1
Product number	95910, 95913
Substance name	Calcium Lignosulfonate

1.2 Other means of identification

Solid (powder), brown in color, slight odor.

1.3 Recommended use of the chemical and restrictions on use

For Industrial Use Only

Applications: Delayed Set Admixture in cementitious products, Dispersant in cementitious products, Water reducer in cementitious products

1.4 Supplier's details

Name	Fritz-Pak Corporation
Address	4821 Eastover Circle Mesquite, TX 75149 USA
Telephone	214-221-9494
Fax	214-349-3182
email	davidojeda@fritzpak.com

1.5 Emergency phone number(s)

214-221-9494

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)
- CAN Combustible dusts, Cat. 1

2.2 GHS label elements, including precautionary statements

Signal word **Warning**

Hazard statement(s)

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(CAN)

May form combustible dust concentrations in air

2.3 Other hazards which do not result in classification

Combustible dust hazard: fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Avoid contact with skin and eyes. Do not ingest. Do not breathe dust. Avoid generating dust. Use only with adequate ventilation.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	Calcium Lignosulfonate
Other names / synonyms	Lignosulfonic acid, calcium salt

Hazardous components

1. Lignosulfonic acid, calcium salt

Concentration 90 - 95 %

Other names / synonyms Lignosulfonic acid, calcium salt
CAS no. 8061-52-7

2. Water

Concentration 5 - 10 %

Other names / synonyms Water
CAS no. 7732-18-5

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Flush eyes with water as a precaution.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if necessary.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

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5.2 Specific hazards arising from the chemical

May form combustible dust concentrations in air. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.3 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use with adequate ventilation to control airborne levels.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved before handling this product.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

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Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Solid (powder)
Odor	Slight (sweet, smoky)
Odor threshold	No data available.
pH	3.5-5.5
Melting point/freezing point	>130 C
Initial boiling point and boiling range	n/a
Flash point	n/a
Evaporation rate	n/a
Flammability (solid, gas)	n/a
Upper/lower flammability limits	0.2 oz/cu ft - 3.5 oz/cu ft
Upper/lower explosive limits	n/a
Vapor pressure	n/a
Vapor density	n/a
Relative density	n/a
Solubility(ies)	100% soluble in cold and hot water.
Partition coefficient: n-octanol/water	n/a
Auto-ignition temperature	400 C for dust only
Decomposition temperature	n/a
Viscosity	n/a
Explosive properties	None.
Oxidizing properties	None.

Other safety information

Bulk density (g/ml): 0.37-0.56

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid generating dust.

10.5 Incompatible materials

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Strong oxidizing agents, strong acids, strong bases

10.6 Hazardous decomposition products

Will not occur.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat

Result: >15,000mg/kg

Remarks: Based on similar products.

Skin corrosion/irritation

May cause slight skin irritation.

Serious eye damage/irritation

May cause slight eye irritation

Respiratory or skin sensitization

Dust may cause slight respiratory tract irritation.

Germ cell mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Summary of evaluation of the CMR properties

No known significant effects or critical hazards.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

Not readily biodegradable.

Bioaccumulative potential

No data available.

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Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Consult your local or regional authorities.

Disposal of contaminated packaging

Dispose of as unused product.

Waste treatment

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Sewage disposal

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Other disposal recommendations

Disposal of this product, solutions and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

TSCA 8(B) inventory:

All ingredients are listed on TSCA inventory.

Domestic Substance List (DSL) Canada:

All ingredients are included on DSL.

SECTION 16: Other information

Hazardous Material
Information System, USA
(HMIS):

Health : 1 (slight)
Flammability : 1 (slight)
Physical Hazards : 0 (minimal)

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HMIS ratings are estimated from available data. The customer is responsible for determining the PPE code for this product.

National Fire Protection
Association, USA (NFPA):

Health : 1 (slight)
Flammability : 1 (slight)
Instability : 0 (minimal)
Special : Not applicable

NFPA ratings are estimated from available data. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids for safe handling.

16.1 Further information/disclaimer

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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

16.2 Preparation information

Prepared by: David Ojeda

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Reference: 29 CFR Part 1910.1200 OSHA SDS Requirements