FRITZ-PAK CORPORATION

Safety Data Sheet
Supercizer 5

SECTION 1: Identification

1.1 Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Supercizer 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product number</td>
<td>95600, 95652, 95650</td>
</tr>
<tr>
<td>Substance name</td>
<td>Sodium salt of poly(naphthalene sulfonic acid)</td>
</tr>
</tbody>
</table>

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: Superplasticizer, Dispersant in cementitious products, Water reducer in cementitious products

1.4 Supplier’s details

<table>
<thead>
<tr>
<th>Name</th>
<th>Fritz-Pak Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>4821 Eastover Circle</td>
</tr>
<tr>
<td></td>
<td>Mesquite, TX 75149</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td>Telephone</td>
<td>214-221-9494</td>
</tr>
<tr>
<td>Fax</td>
<td>214-349-3182</td>
</tr>
<tr>
<td>email</td>
<td><a href="mailto:davidojeda@fritzpak.com">davidojeda@fritzpak.com</a></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard statement(s)</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Other names / synonyms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium salt of poly(naphthalene sulfonic acid)</td>
<td>Naphthalenesulfonic acid, sodium salt</td>
</tr>
</tbody>
</table>

Hazardous components

1. Naphthalenesulfonic acid, sodium salt
   Concentration 78 - 92%
   Other names / synonyms Naphthalenesulfonic acid, sodium salt
   CAS no. 9084-06-4

2. Water
   Concentration 5 - 10%
   Other names / synonyms Water
   CAS no. 7732-18-5

3. Sodium sulfate
   Concentration 2 - 12%
   Other names / synonyms Sodium sulfate; Sodium sulfate anhydrous; Sulfuric acid sodium salt (1:2)
   CAS no. 7757-82-6

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.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical
May produce toxic fumes of carbon oxides and sulfur oxides if burning. 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 if needed. 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 1.2 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 workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight (sweet, smoky)</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH</td>
<td>7-9</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>n/a</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>n/a</td>
</tr>
<tr>
<td>Flash point</td>
<td>n/a</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>n/a</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>n/a</td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td>n/a</td>
</tr>
<tr>
<td>Upper/lower explosive limits</td>
<td>n/a</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>n/a</td>
</tr>
<tr>
<td>Vapor density</td>
<td>n/a</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.6-0.8 g/cm³</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in cold and hot water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>n/a</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>n/a</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>n/a</td>
</tr>
<tr>
<td>Viscosity</td>
<td>n/a</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>None.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None.</td>
</tr>
</tbody>
</table>

### 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**
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: >2000mg/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.
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Persistence and degradability
Not readily biodegradable.

Bioaccumulative potential
No data available.

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.

SARA 313
All ingredients listed as hazardous substances are below the ‘de minimis’ concentration.

SECTION 16: Other information
Hazardous Material Information System, USA (HMIS):

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

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
Date of issue: May 31, 2015