




### I. Product and Company Information

|   |   |                    |                              |
|---|---|--------------------|------------------------------|
| <b>SII Product Name(s):</b>   | Papermakers' Sodium Aluminate   | <b>Synonym:</b>    | LSA, Liquid Sodium Aluminate |
| <b>Chemical Name:</b>   | Sodium Aluminate Solution   | <b>CAS Number:</b> | 1302-42-7                    |
| <b>Manufacturer's Name:</b><br>Southern Ionics Incorporated<br>579 Commerce Street<br>West Point, MS 39773<br>Customer Service: 1-800-953-3585<br>Web Site <a href="http://www.southernionics.com">www.southernionics.com</a> | <b>Emergency Contacts:</b><br>Afterhours (Southern Ionics) 1-888-610-2379<br><br>For Chemical Emergency, Spill or Accident<br>Call CHEMTREC at 1-800-424-9300<br>CHEMTREC CCN - 20596 |                    |                              |

### II. Hazard Identification

|   |                                    |   |  |
|---|------------------------------------|---|--|
| <b>OSHA HCS / GHS Classification(s):</b>  |                                    | <b>Hazard Statement(s):</b>   |  |
| Skin Corrosion, Category 1A   |                                    | Causes severe skin burns.   |  |
| Serious Eye Damage, Category 1  |                                    | Causes serious eye damage.  |  |
| Corrosive to Metals, Category 1   |                                    | May be corrosive to metals.   |  |
| <b>Signal Word:</b>   | <b>Precautionary Statement(s):</b> |   |  |
| Danger  | <b>Prevention:</b>                 | Wash affected body part thoroughly after handling.                                  |  |
| <b>Symbol(s):</b><br>                            |                                    | Wear eye and face protection.   |  |
|   |                                    | Wear protective gloves and clothing.  |  |
|   |                                    | Keep in original container.   |  |
|   | <b>Response:</b>                   | IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately seek medical advice. |  |
| IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.  |                                    |   |  |
| IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |                                    |   |  |
| For specific treatment: See First Aid section IV.   |                                    |   |  |

### III. Composition / Information on Ingredients

| <b>Chemical Name:</b> | <b>CAS Reg #'s</b> | <b>%</b> |
|-----------------------|--------------------|----------|
| Sodium Aluminate      | 1302-42-7          | 26-29    |
| Sodium Hydroxide      | 1310-73-2          | 11-14    |
| Water                 | 7732-18-5          | Balance  |

### IV. First Aid Measures

|                       |   |
|-----------------------|---|
| <b>Eyes:</b>          | Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses. Seek medical attention, if you feel unwell. |
| <b>Dermal / Skin:</b> | Remove contaminated clothing and wash exposed area thoroughly with soap and water for at least 15 minutes. Seek medical attention, if you feel unwell.          |
| <b>Inhalation:</b>    | Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention, if you feel unwell.  |
| <b>Ingestion:</b>     | If swallowed, DO NOT induce vomiting. Rinse mouth, seek medical attention, if you feel unwell.  |

### V. Fire Fighting Measures

|  |   |            |                     |                              |
|--|---|------------|---------------------|------------------------------|
| <b>NFPA Hazard Rating:</b>   | Health (Blue)   | Fire (Red) | Reactivity (Yellow) | Special Instructions (White) |
|  | 3   | 0          | 1                   | None                         |
| <b>NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme</b> |   |            |                     |                              |
| <b>Extinguishing Media:</b>  | Use extinguishing media appropriate for surrounding fire.   |            |                     |                              |
| <b>Special Firefighting Procedure:</b>   | Wear NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to keep containers cool and to knock down fumes. |            |                     |                              |

### VI. Accidental Release Measures

|   |  |
|---|--|
| <b>Precaution if Spilled or Released:</b> | Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems. |
| <b>Neutralizing Chemicals:</b>            | Dilute Acid.   |

### VII. Handling and Storage

|                  |   |
|------------------|---|
| <b>Handling:</b> | Handle all chemicals with respect. Keep separated from incompatible substances. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product.   |
| <b>Storage:</b>  | Use black iron, mild steel, cast iron or stainless steel for bulk storage. Store at appropriate temperature to protect from freezing or crystallization. Consult the appropriate SII Product Bulletin for temperature recommendations. Do not store this material near food, animal feed, or drinking water. Store in well ventilated area. Store away from excessive heat (e.g. steam pipes, radiators), and from reactive materials. Keep container tightly closed when not in use. |

### VIII. Exposure Control / Personal Protective Equipment

|   |   |                    |                          |                     |
|---|---|--------------------|--------------------------|---------------------|
| <b>Component Workplace Control Parameters:</b>                                      |   |                    |                          |                     |
| <b>Components:</b>  | <b>CAS-No.</b>  | <b>Value</b>       | <b>Parameters</b>        | <b>Basis</b>        |
| Sodium Hydroxide  | 1310-73-2   | TWA                | 2.0mg/m <sup>3</sup>     | as Sodium Hydroxide |
| <b>Engineering Controls:</b>  | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.   |                    |                          |                     |
| <b>General Hygiene:</b>   | Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or using the toilet.   |                    |                          |                     |
| <b>Personal Protection Equipment:</b>   |   |                    |                          |                     |
| <b>Eye:</b>   | Use chemical splash goggles and face shield. Eye protection worn must be compatible with respiratory protection system employed.  |                    |                          |                     |
| <b>Skin:</b>  | Chemically resistant gloves should be worn whenever this material is handled. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. |                    |                          |                     |
| <b>Respiratory:</b>   | None required under normal conditions. When conditions warrant a respirator, use NIOSH approved respirator.   |                    |                          |                     |
| <b>Other Protective Items:</b>  | Where splash is possible, full chemically resistant protective clothing and boots are required. Ensure that eyewash stations and safety showers are proximal to the work-station location.          |                    |                          |                     |
| <b>HMIS Classification:</b>   | Health (Blue)   | Flammability (Red) | Physical Hazard (Yellow) | PPE (White)         |
|   | 3   | 0                  | 1                        | See Above           |
| <b>Hazard Classification: 0 = Minimal 1=Slight 2= Moderate 3= Serious 4= Severe</b> |   |                    |                          |                     |

### IX. Physical and Chemical Properties

|  |                       |                                |                       |
|--|-----------------------|--------------------------------|-----------------------|
| <b>Physical State:</b>                     | Liquid                | <b>pH:</b>                     | 14                    |
| <b>Appearance:</b>                         | Clear to amber liquid | <b>Molecular Weight:</b>       | 119.4                 |
| <b>Odor:</b>                               | Slight                | <b>Odor Threshold:</b>         | No Data Available     |
| <b>Specific Gravity:(H<sub>2</sub>O=1)</b> | 1.47 @ 77°F/25°C      | <b>Weight per Gallon:</b>      | 12.2 lbs. @ 77°F/25°C |
| <b>Vapor Density: (Air=1)</b>              | Similar to Water      | <b>Vapor Pressure:</b>         | Similar to Water      |
| <b>Boiling Point:</b>                      | 228°F /108°C          | <b>Freezing/Melting Point:</b> | 3°F /-16°C            |
| <b>Lower Explosive Limit:</b>              | Not Applicable        | <b>Upper Explosive Limit:</b>  | Not Applicable        |
| <b>Flash Point:</b>                        | Not Applicable        | <b>Autoignition Temp:</b>      | Not Applicable        |
| <b>Solubility in water:</b>                | Appreciable           | :                              |                       |
| <b>Other:</b>                              |                       |                                |                       |

### X. Stability and Reactivity Data

|   |  |
|---|--|
| <b>Chemical Stability:</b>                  | Product is stable under normal or expected use.                                  |
| <b>Conditions To Avoid:</b>                 | Mixture with strong acids produces considerable heat.                            |
| <b>Incompatible Materials:</b>              | Avoid contact with the following: copper, tin, zinc, aluminum, and their alloys. |
| <b>Hazardous products of Decomposition:</b> | None   |

### XI. Toxicological Information

|                                       |  |            |             |            |              |                |
|---------------------------------------|--|------------|-------------|------------|--------------|----------------|
| <b>Routes of Entry:</b>               | <input checked="" type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Inhalation |            |             |            |              |                |
| <b>Sign and symptoms of Exposure:</b> | May cause irritation to eyes, skin, and respiratory passages.  |            |             |            |              |                |
| <b>Eye Contact:</b>                   | Causes serious eye damage.   |            |             |            |              |                |
| <b>Ingestion:</b>                     | May cause burns to mouth, throat, and stomach.   |            |             |            |              |                |
| <b>Skin Contact:</b>                  | Causes severe skin burns.  |            |             |            |              |                |
| <b>Inhalation:</b>                    | May irritate respiratory tract.  |            |             |            |              |                |
| <b>Carcinogenicity:</b>               | <b>NPT</b>   | Not Listed | <b>IARC</b> | Not Listed | <b>OSHA</b>  | Not Regulated  |
| <b>Ingredient Name:</b>               | <b>Species</b>   |            | <b>Test</b> |            | <b>Route</b> | <b>Results</b> |
| Sodium Hydroxide                      | Rabbit   |            | 1350 mg/kg  |            | dermal       | LD 50          |
| <b>Comments:</b>                      |  |            |             |            |              |                |

### XII. Ecological Information

|                         |  |             |               |                |
|-------------------------|--|-------------|---------------|----------------|
| <b>Ingredient Name:</b> | <b>Species</b>   | <b>Test</b> | <b>Period</b> | <b>Results</b> |
| Sodium Aluminate        | Western Mosquitofish   | 111mg/L     | 96 hrs        | LC 50          |
| <b>Comments:</b>        | When released into the soil, this material is not expected to biodegrade and may leach into groundwater. |             |               |                |

### XIII. Disposal Considerations

|                        |  |
|------------------------|--|
| <b>Waste Disposal:</b> | Always dispose of material in accordance with local, state, and federal regulations. |
|------------------------|--|

### XIV. Transportation Information

|                               |                           |                       |    |                      |           |
|-------------------------------|---------------------------|-----------------------|----|----------------------|-----------|
| <b>Proper Shipping Name:</b>  | Sodium Aluminate Solution |                       |    |                      |           |
| <b>DOT Classification:</b>    | 8                         |                       |    |                      |           |
| <b>Identification Number:</b> | UN 1819                   | <b>Packing Group:</b> | II | <b>Other Labels:</b> | Corrosive |

## XV. Regulatory Information

| Inventory Status:          |           | US Regulations: |   |
|----------------------------|-----------|-----------------|---|
| U. S. TSCA                 | Yes       | SARA 302 TPQ    | Not Listed  |
| Europe EINECS              | Yes       | SARA 304 RQ     | Not Listed  |
| Canadian                   | Yes       | SARA 313 List   | Not Listed  |
| Japan ENCS                 | No        | CERCLA (RQ)     | 1,000 lbs on dry weight basis as Sodium Hydroxide   |
| Korean KECI                | Yes       | RCRA 261.33     | D002 (Corrosive) if the pH of the waste is $\geq 12.5$  |
| Philippines PICCS          | Yes       |                 |   |
| Australian AICS            | Yes       |                 |   |
|                            |           | SARA 311/312    | <input checked="" type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive |
| International Regulations: |           |                 | Other Regulations:  |
| Canada WHMIS               | E         | Corrosive       | California PROP 65<br>Not Listed  |
|                            |           |                 |   |
| EINECS                     | 215-100-1 |                 |   |

## XVI. Other Information

|                           |   |
|---------------------------|---|
| <b>NSF Certification:</b> |   |
| <b>Other:</b>             | _____   |
| <b>Revision Notes:</b>    | _____   |
| <b>MSDS Replacements:</b> | <u>SII MSDS 135 - Papermakers' Sodium Aluminate</u> |

**For Product Information:**  
TEL: 662-494-3055  
FAX: 662-494-2828

**SALES OFFICE**  
Post Office Drawer 1217  
West Point, MS 39773

**To Place An Order:**  
TEL: 800-953-3585  
FAX: 800-953-3588

### IMPORTANT

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