

### SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **LRPS-1000S PLUS(Concrete Admixture)**

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### SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient       | CAS#        | Percentage |
|------------------|-------------|------------|
| Lignosulphonate  | 008061-51-6 | 5-30       |
| Sodium Gluconate | 000527-07-1 | 1-10       |
| Polycarboxylate  | 26915-72-0  | 25-45      |
| Water            | 7732-18-5   | 15-49      |

### SECTION 3. HAZARDS IDENTIFICATION

- **Emergency Overview:**
  - Causes eye irritation.
  - Causes skin irritation.
  - May be harmful if ingested.
- **Potential Health Effects:**
  - Inhalation: Acute inhalation not expected to result in adverse effects. Prolonged inhalation may cause respiratory tract irritation.
  - Eye Contact: Eye contact causes irritation.
  - Skin Contact: Skin contact causes irritation. Prolonged skin contact can result in irritation causing redness and itching. Skin Absorption: Not expected to be harmful if absorbed through the skin.
  - Ingestion: Harmful if ingested.
  - Effects include: Nausea, vomiting and digestive tract irritation.

### SECTION 4. FIRST AID MEASURES:

Skin Contact: Wash with soap and water. If discomfort or irritation persists, consult a physician. Remove contaminated clothing and wash before reuse.

Eye Contact: Flush eyes with water for at least 15 minutes. If discomfort or irritation persists, consult a physician.

Ingestion: Do not induce vomiting. If discomfort persists, consult a physician.

Inhalation: Get fresh air. If symptoms persist, consult a physician. If breathing has stopped, give artificial respiration then oxygen if needed.

### SECTION 5. FIRE FIGHTING MEASURES

Special hazards: None.

Protective equipment: Eye protection required.

Extinguishing agents: Product is non-combustible. For residual solids, use water spray, carbon dioxide, dry chemical or universal type foams.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Spills/Leaks: Use proper personal protective equipment. Do not flush to sewer or allow to enter waterways. Contain and/or absorb spill with inert

material (i.e. sand, earth) then place in a suitable container. For large spills, dike area and pump waste material into closed containers for disposal or reclamation.

## SECTION 7. HANDLING AND STORAGE

Precautionary Measures: Avoid contact with eyes, skin and clothing. Do not take internally. Practice good personal hygiene to avoid ingestion. Use only with adequate ventilation. Wash clothing before reuse.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protection

Respiratory protection: Wear proper masks.  
 Eye protection: Wear safety glasses.  
 Hand protection: Protective gloves or suitable barrier cream recommended.  
 Body protection: Protective industrial clothing recommended.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid  
 Appearance: Dark brown liquid  
 Odor: N.A.  
 Odor Threshold: (ppm) N.A.  
 pH:  $4 \pm 1$   
 Vapor Pressure: (Mm Hg)  $\approx$  Water  
 Vapor Density: (Air = 1) Not Applicable  
 Solubility In Water: Complete  
 Specific Gravity:  $1.125 \pm 0.03$  at  $25^{\circ}\text{C}$   
 Evaporation Rate:  $\approx$  Water  
 Boiling Point:  $\approx$  Water  
 Freezing temperature:  $\approx$  Water  
 Volatiles ( $25^{\circ}\text{C}$ ):  $\approx$  Water  
 Viscosity: Unknown

## SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable  
 Hazardous Polymerization: Will not polymerize.  
 Hazardous Decomposition Products: None known  
 Conditions To Avoid: None known

## SECTION 11. TOXICOLOGICAL INFORMATION

| Ingredient       | CAS#        | LD50 & LC50                 |
|------------------|-------------|-----------------------------|
| Lignosulphonate  | 008061-51-6 | Oral LD50 Mouse: 6030 mg/kg |
| Sodium gluconate | 000527-07-1 | N.d                         |
| Polycarboxylate  | 26915-72-0  | N.d                         |

Carcinogenicity: None  
 Mutagenicity: N.a  
 Teratogenicity: N.a  
 Reproductive Toxicity: N.a

**SECTION 12. ECOLOGICAL INFORMATION**

|                     |     |
|---------------------|-----|
| Environmental Fate: | N.d |
| Ecotoxicity:        | N.d |

**SECTION 13. DISPOSAL CONSIDERATIONS**

Spillages of of this product should be absorbed onto sand or earth and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

**SECTION 14. TRANSPORT INFORMATION**

|                                 |                    |
|---------------------------------|--------------------|
| Declaration (transport by sea)  |                    |
| IMDG-Code:                      | No Dangerous Good  |
| Declaration (transport by air)  |                    |
| IATA - DGR:                     | No Dangerous Good  |
| Surface Freight Classification: | Concrete Additives |
| Label/Placard Required:         | N.a                |

**SECTION 15. REGULATORY INFORMATION**

|                                  |               |
|----------------------------------|---------------|
| Classification:                  | Non-required. |
| Hazard labels:                   | N.as.         |
| R-phrases:                       | N.as.         |
| S-phrases:                       | N.as.         |
| National regulatory information: | N.a.          |
| Regulations and prohibitions:    | N.a.          |

**SECTION 16. OTHER INFORMATION**

n.a. = not applicable  
n.as. = not assigned  
n.d. = no data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.