

# Material Safety Data Sheet

## Alginate oligosaccharides

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|----|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1. | <b>IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY</b> |                                                                                                        |
|    | COMMON NAME                                               | Alginate oligosaccharides                                                                              |
|    | BOTANICAL SOURCE                                          | Alginate oligosaccharides                                                                              |
|    | COMPANY NAME                                              | Zhongke Runxin(Suzhou) Biological Technology., Ltd                                                     |
|    | <b>Manufacturer's Address:</b>                            | No.6 Anmin Road,Huangdai Town,Xiangcheng District,<br>Suzhou City                                      |
|    | <b>Manufacturer's Country:</b>                            | China                                                                                                  |
|    | <b>Telephone:</b>                                         | 0086-13814814326                                                                                       |
| 2. | <b>INFORMATION ON SUBSTANCE</b>                           |                                                                                                        |
|    | PRINCIPAL HAZARDOUS COMPONENT                             | Non                                                                                                    |
|    | CAS No.:                                                  | 9005-38-3                                                                                              |
|    | APPEARANCE                                                | Light yellow powder                                                                                    |
|    | <b>HAZARDS INFORMATION ON SUBSTANCE</b>                   |                                                                                                        |
|    | HEALTH HAZARDS                                            | No data available yet                                                                                  |
|    | FIRE AND EXPLOSION HAZARDS                                | No data available yet                                                                                  |
|    | ENVIRONMENTAL HAZARDS                                     | No environmental hazards as far as to our knowledge                                                    |
| 4. | <b>FIRST-AID MEASURES</b>                                 |                                                                                                        |
|    | INHALATION                                                | Remove to well-ventilated area. Seek medical attention.                                                |
|    | SKIN CONTACT                                              | Washed by soap water or clear water if it comes into contact with skin.                                |
|    | EYE CONTACT                                               | Washed by clear water if contacting with eyes. Sent to hospital if having excessive intake by mistake. |
|    | INGESTION                                                 | Wash out mouth with water if conscious. Seek medical attention.                                        |
|    | PROTECT MEASURES                                          | Wearing protective clothes and safety gloves when operating.                                           |
| 5. | <b>FIRE-FIGHTING MEASURES</b>                             |                                                                                                        |
|    | EXTINGUISHER MEDIA                                        | Water Spray, Carbon Dioxide, Dry Chemical Powder or other appropriate form.                            |
|    | SPECIAL FIRE FIGHTING PROCEDURES                          | Wear self-containing breathing apparatus against toxic fumes and protective clothing.                  |
|    | FIRE & EXPLOSION HAZARDS                                  | Not combustible, flammable or explosive. Emits toxic fumes under fire conditions.                      |
| 6. | <b>ACCIDENTAL RELEASE MEASURES</b>                        |                                                                                                        |
|    | STEPS TO BE TAKEN IN CASE MATERIAL                        | Wear protective equipment. Sweep up, place in proper                                                   |

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| IS SPILLED OR RELEASED                                                                                                                                                                                                                                                                                                                                                                                                                  | container for waste disposal, do not get water inside container. Avoid raising dust. Ventilate area & wash site after material pickup is complete.                                                                          |
| CLEANING METHODS                                                                                                                                                                                                                                                                                                                                                                                                                        | Wash premises, equipment and working surfaces with water.                                                                                                                                                                   |
| WASTE DISPOSALS METHODS                                                                                                                                                                                                                                                                                                                                                                                                                 | Dispose of as solid organic waste in accordance with national and local regulations                                                                                                                                         |
| <b>7. HANDLING &amp; STORAGE</b><br>HANDLING&STORAGE                                                                                                                                                                                                                                                                                                                                                                                    | Keep far away from kindled material, heat source and direct light.<br>Keep the container airtight. Should be separately stored form oxidant and edible chemical compound.                                                   |
| <b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b><br>OCCUPATIONAL EXPOSURE LIMITS <div> <div>GB</div> <div>TWA:</div> <div>Not established</div> </div> <div> <div>D</div> <div>TWA:</div> <div>Not established</div> </div> <div> <div>USA</div> <div>TWA/TLV:</div> <div>Not established</div> </div> <div> <div>USA</div> <div>TWA/STEL:</div> <div>Not established</div> </div><br>VENTILATION<br><br>PERSONAL PROTECTIVE EQUIPMENT | <br><br><br><br><br><br><br><br><br><br>Local exhaust may be needed.<br><br>Protective goggles, gloves. Coveralls, apron, boots. Respiratory protection with dust-filter may be needed.                                     |
| <b>9. PHYSICAL AND CHEMICAL PROPERTIES</b><br>APPEARANCE<br>BOILING POINT<br>MELTING POINT<br>AUTO-IGNITION TEMP.                                                                                                                                                                                                                                                                                                                       | White powder<br>n.a.<br>Decompose<br>n.a.                                                                                                                                                                                   |
| SOLUBILITY<br>FLASH POINT<br>EXPLOSIVE LIMITS IN AIR                                                                                                                                                                                                                                                                                                                                                                                    | Soluble in water<br>n.a.<br>n.a.                                                                                                                                                                                            |
| <b>10. STABILITY &amp; REACTIVITY</b><br>STABILITY & REACTIVITY<br><br>CONDITIONS TO AVOID<br><br>MATERIALS TO AVOID<br>HAZARDOUS DECOMPOSITION PRODUCTS                                                                                                                                                                                                                                                                                | The compound is stable at room temperature in closed containers.<br><br>Incompatible materials, light, dust generation, moisture, excess heat, strong oxidants.<br><br>Oxidizing agents<br>Carbon monoxide, carbon dioxide. |
| <b>11. TOXICOLOGICAL INFORMATION</b><br>ACUTE ORAL LD50 (MICE/RATS)<br><br>IRRITATION TESTS (EYES)                                                                                                                                                                                                                                                                                                                                      | <br><br><br>Not known                                                                                                                                                                                                       |

|     |                                |                                                                                                        |
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|     | INHALATION                     | Not known                                                                                              |
| 12. | <b>ECOLOGICAL INFORMATION</b>  | No data available yet.                                                                                 |
| 13. | <b>DISPOSAL CONSIDERATIONS</b> |                                                                                                        |
| 14. | <b>TRANSPORT INFORMATION</b>   | Product not classified as hazardous for transport. No special requirements.                            |
|     | CN_DG                          | Not Regulated                                                                                          |
|     | ADR                            | Not Regulated                                                                                          |
|     | RID                            | Not Regulated                                                                                          |
|     | IMDG                           | Not Regulated                                                                                          |
|     | IATA                           | Not Regulated                                                                                          |
| 15. | <b>REGULATORY INFORMATION</b>  | Data not available                                                                                     |
| 16. | <b>OTHER INFORMATION</b>       | protease has been proved no offensive smell, no infective danger or any other danger when transported. |

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