



**ALDON CORPORATION**

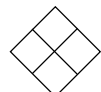
# MATERIAL SAFETY DATA SHEET

221 Rochester Street  
Avon, New York 14414-9409  
(585) 226-6177

MSDS No.: LL0020  
Effective Date: January 12, 2007

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

|                          |   |
|--------------------------|---|
| <b>Product</b>           | LACTOSE   |
| <b>Chemical Synonyms</b> | Milk Sugar  |
| <b>Formula</b>           | C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> •H <sub>2</sub> O |
| <b>Unit Size</b>         | up to 2.5 Kg.   |
| <b>C.A.S. No.</b>        | 64044-51-5  |



**CHEMTREC**  
800-424-9300  
Day 585-226-6177

**NFPA**

|               |        |          |         |        |
|---------------|--------|----------|---------|--------|
| HAZARD RATING |        |          |         |        |
| MINIMAL       | SLIGHT | MODERATE | SERIOUS | SEVERE |
| 0             | 1      | 2        | 3       | 4      |

|                   |   |
|-------------------|---|
| <b>Health</b>     | 0 |
| <b>Fire</b>       | 1 |
| <b>Reactivity</b> | 1 |

**HMIS \***

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | %    | TLV Units         |
|------------------------|------|-------------------|
| Lactose                | 100% | None established. |
| <b>CAUTION!</b>        |      |                   |

## SECTION III PHYSICAL DATA

|                        |                                      |   |     |
|------------------------|--------------------------------------|---|-----|
| Melting Point (°F)     | 202°C (395°F) dec.                   | Specific Gravity (H <sub>2</sub> O = 1) | N/A |
| Boiling Point (°F)     | N/A                                  | Percent Volatile by Volume (%)          | N/A |
| Vapor Pressure (mm Hg) | N/A                                  | Evaporation Rate ( =1)                  | N/A |
| Vapor Density (Air=1)  | 1.56                                 |   |     |
| Solubility in Water    | 20 grams per 100 gram water at 20°C. |   |     |
| Appearance & Odor      | White powder; no odor.               |   |     |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

|                                  |                                    |                                |         |       |
|----------------------------------|------------------------------------|--------------------------------|---------|-------|
| <b>Flash Point (Method Used)</b> | Non-flammable.                     | <b>Flammable Limits in Air</b> | Lower   | Upper |
|                                  |                                    | % by Volume                    | Unknown |       |
| <b>Extinguisher Media</b>        | Water spray; carbon dioxide; foam. |                                |         |       |

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

Auto-ignition temperature: 788°F (420°C).

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust dispersed in air becomes explosive when exposed to ignition source. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

## SECTION V HEALTH HAZARD DATA

LL0020

### Threshold Limited Value

None established by ACGIH 2001.

### Effects of Overexposure

**EYES:** No specific hazard known. However, any material that contacts the eye may be irritating. **SKIN:** May cause possible irritation. Target organs: None known.

### Emergency and First Aid Procedures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

|                  |                 |   |                            |                                 |
|------------------|-----------------|---|----------------------------|---------------------------------|
| <b>Stability</b> | <b>Unstable</b> |   | <b>Conditions to Avoid</b> | Excessive temperatures or heat. |
|                  | <b>Stable</b>   | X |                            |                                 |

|   |                   |
|---|-------------------|
| <b>Incompatibility (Materials to Avoid)</b> | Strong oxidizers. |
|---|-------------------|

|   |                 |
|---|-----------------|
| <b>Hazardous Decomposition Products</b> | Not applicable. |
|---|-----------------|

|                                 |                            |
|---------------------------------|----------------------------|
| <b>Hazardous Polymerization</b> | <b>Conditions to Avoid</b> |
| <b>May Occur</b>                | <b>Will Not Occur</b>      |
|                                 | X                          |
|                                 | Not applicable.            |

## SECTION VII SPILL OR LEAK PROCEDURES

### Steps to be taken in case material is released or spilled

Sweep up and place in suitable container for reclamation or proper disposal. Wash spill area with soap and water.

|                              |  |
|------------------------------|--|
| <b>Waste Disposal Method</b> | Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. |
|------------------------------|--|

Dispose of in an approved incinerator or if uncontaminated, material may be disposed of in a sanitary landfill.

## SECTION VIII SPECIAL PROTECTION INFORMATION

|  |   |  |  |
|--|---|--|--|
| <b>Respiration Protection (Specify Type)</b> | None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask. |  |  |
|--|---|--|--|

|                    |                             |             |                |     |
|--------------------|-----------------------------|-------------|----------------|-----|
| <b>Ventilation</b> | <b>Local Exhaust</b>        | Not needed. | <b>Special</b> | No. |
|                    | <b>Mechanical (General)</b> | Not needed. | <b>Other</b>   | No. |

|                          |             |                       |                          |
|--------------------------|-------------|-----------------------|--------------------------|
| <b>Protective Gloves</b> | Not needed. | <b>Eye Protection</b> | Chemical safety glasses. |
|--------------------------|-------------|-----------------------|--------------------------|

|                                   |   |
|-----------------------------------|---|
| <b>Other Protective Equipment</b> | Eye wash station, ventilation hood, lab coat. |
|-----------------------------------|---|

## SECTION IX SPECIAL PRECAUTIONS

|  |  |
|--|--|
| <b>Precautions to be Taken in Handling &amp; Storing</b> | Store in a cool, dry place away from strong oxidizing agents. Wash thoroughly after handling.  |
| <b>Other Precautions</b>                                 | Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. |

Remove and wash contaminated clothing.

|                     |   |             |          |                 |                  |                                    |     |
|---------------------|---|-------------|----------|-----------------|------------------|------------------------------------|-----|
| <b>Revision No.</b> | 7 | <b>Date</b> | 01/12/07 | <b>Approved</b> | James A. Bertsch | <b>Chemical Safety Coordinator</b> | JAB |
|---------------------|---|-------------|----------|-----------------|------------------|------------------------------------|-----|

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.