



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. MM 180
Effective Date March 25, 1999

SECTION V HEALTH HAZARD DATA

MM 180

Threshold Limited Value

None established. (ACGIH 1992-93).
Toxicity: Oral-rat LD50 34.8 g/kg.

Effects of Overexposure

INHALATION: Low hazard for usual laboratory handling. **SKIN:** Low hazard for usual laboratory handling. **EYES:** No specific hazard known to us. However, any material that contact the eye, may be irritating and cause mechanical injury. **INGESTION:** May cause discomfort. An experimental Tumorigen and Teratogen in animal studies. RTECS 005250000 1983-84.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush with water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

| Stability | Unstable | Stable | Conditions to Avoid |
|-----------|----------|--------|--------------------------------|
| | | X | Excessive temperature or heat. |

| Incompatibility (Materials to Avoid) | Strong oxidizers (Nitric acid, Potassium permanganate, chlorates, etc.). |
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| Hazardous Decomposition Products | Thermal decomposition or burning may produce carbon dioxide and/or carbon monoxide. |
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| Hazardous Polymerization | Conditions to Avoid |
|--------------------------|---------------------|
| May Occur | Will Not Occur |
| | 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 a suitable container for disposal or dissolve in water and flush to sewer with copious amounts of water. Wash spill area with soap and water. |
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| Waste Disposal Method | 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 dissolve in water and flush to sewer with copious amounts of water. |
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SECTION VIII SPECIAL PROTECTION INFORMATION

| Respiration Protection (Specify Type) | None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear NIOSH/MSHA-approved dust mask. | | |
|---------------------------------------|---|----------------|--------------------------|
| Ventilation | Local Exhaust | Recommended. | Special |
| | Mechanical (General) | Recommended. | Other |
| | | | No. |
| | | | No. |
| Protective Gloves | Rubber for repeated handling. | Eye Protection | Chemical safety glasses. |

| Other Protective Equipment | Eye wash station, lab coat, goggles, proper gloves. |
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SECTION IX SPECIAL PRECAUTIONS

| Precautions to be Taken in Handling & Storing | Store in a cool, dry place away from strong oxidizers. Wash thoroughly after handling. |
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Keep container tightly closed when not in use.

| Other Precautions | Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin and eyes. Avoid breathing dust. Remove and wash contaminated clothing. |
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

| Revision | No. 5 | Date | 3/25/99 | Approved | Michael Raszeja | Chemical Safety Coordinator | MR |
|----------|-------|------|---------|----------|-----------------|-----------------------------|----|
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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.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

| Product | MALTOSE |
|-------------------|---|
| Chemical Synonyms | Malt Sugar, D(+)-Maltose |
| Formula | C ₁₂ H ₂₂ O ₁₁ •H ₂ O |
| Unit Size | up to 2.5 Kg. |
| C.A.S. No. | 6363-53-7 (Monohydrate) |

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

| Health | 0 |
|------------|---|
| Fire | 1 |
| Reactivity | 0 |

HMIS *

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|------------------------|------|-------------------|
| Maltose | 100% | None established. |

LOW HAZARD FOR USUAL LABORATORY HANDLING; NON-TOXIC.

SECTION III PHYSICAL DATA

| | | | |
|------------------------|------------------------------------|---|------------------|
| Melting Point (°F) | 102-103°C (215-217°F) | Specific Gravity (H ₂ O = 1) | Data not listed. |
| Boiling Point (°F) | Decomposes. | Percent Volatile by Volume (%) | N/A |
| Vapor Pressure (mm Hg) | Negligible as solid. | Evaporation Rate (n-Butyl Ac. =1) | N/A |
| Vapor Density (Air=1) | 12.4 | | |
| Solubility in Water | Appreciable. | | |
| Appearance & Odor | White crystalline powder; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| Flash Point (Method Used) | Non-flammable. | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
|---------------------------|--|-------------------------------------|-----|-------|-------|
| Extinguisher Media | Water spray; carbon dioxide; dry chemical. | | | | |

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Powder form dispersed in air is capable of creating a dust explosion.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20