



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. TT 100
Effective Date May 21, 1999

SECTION V HEALTH HAZARD DATA

TT 100

Threshold Limited Value None established by (ACGIH 1983-84). RTECS # YU2800000
Carcinogenic review: Animal positive. Cancer hazard based on laboratory animals. Toxicity data: Ori-rat LD50: 125 mg/Kg.

Effects of Overexposure Prolonged absorption can cause bone marrow depression. Prolonged or repeated overexposure to the dust may result in suppressed thyroid activity. May cause respiratory tract irritation. **Eyes:** No specific hazard known. However, any material that contacts the eye may be irritating or may cause mechanical injury. **Skin:** Prolonged or repeated skin contact may cause skin irritation and result in an allergic skin reaction.

Emergency and First Aid Procedures **Eyes:** Flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **Skin:** Flush with water, then wash with soap and water. **Ingestion:** If swallowed, if conscious, give one or two glasses of water to drink and call physician immediately. Never give anything by mouth to an unconscious person. **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

| | | | | |
|------------------|-----------------|---|----------------------------|--|
| Stability | Unstable | | Conditions to Avoid | Excessive temperature and heat. Strong oxidizers. |
| | Stable | X | | |

Incompatibility (Materials to Avoid)

Hazardous Decomposition Products Combustion will produce carbon dioxide and probably carbon monoxide. Oxides of nitrogen and sulfur may also be present. Thermal decomposition will produce cyanide fumes.

| | | | |
|---------------------------------|-----------------------|----------------------------|-----------------|
| Hazardous Polymerization | | Conditions to Avoid | Not applicable. |
| May Occur | Will Not Occur | | |
| | X | | |

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Wearing proper protective equipment and with adequate ventilation, sweep up spill without producing dust and place in a suitable container for incineration. Wash spill area with soap and water.

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 equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Work in a ventilated hood or wear a NIOSH/MSHA-approved dust mask or respirator.

| | | | | |
|--------------------|-----------------------------|--------------------|----------------|-----------|
| Ventilation | Local Exhaust | Recommended | Special | No |
| | Mechanical (General) | Recommended | Other | No |

| | | | |
|--------------------------|--------|-----------------------|-------------------------|
| Protective Gloves | Rubber | Eye Protection | Chemical safety glasses |
|--------------------------|--------|-----------------------|-------------------------|

Other Protective Equipment Goggles, lab coat, apron, proper gloves, eye wash station, proper ventilation.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool dry place, away from oxidizing materials and fire hazards. Wash thoroughly after handling. 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. Do not get in eyes, on skin, on clothing. Avoid breathing dust. Use with adequate ventilation. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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|-----------------------|---------------------|---------------------------------|---------------------------------------|
| Revision No. 4 | Date 5/21/99 | Approved Michael Raszeja | Chemical Safety Coordinator MR |
|-----------------------|---------------------|---------------------------------|---------------------------------------|

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 | THIOUREA | CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 | Health | 3 |
| Chemical Synonyms | Thiocarbamide | | Fire | 1 |
| Formula | NH ₂ C(SNH ₂) | | Reactivity | 1 |
| Unit Size | up to 2.5 Kg. | | HMIS * | |
| C.A.S. No. | 62-56-6 | | | |

SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s) | % | TLV Units |
|--|------|-------------------|
| Thiourea | 100% | None established. |
| DANGER! HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. CAN CAUSE ALLERGIC SKIN REACTION. IRRITANT. SUSPECTED CARCINOGEN. | | |

SECTION III PHYSICAL DATA

| | | | |
|------------------------|--|---|--------------------|
| Melting Point (°F) | 180-182°C (356°-359°F) | Specific Gravity (H ₂ O = 1) | 1.405 at 20°C |
| Boiling Point (°F) | Decomposes. | Percent Volatile by Volume (%) | Non-volatile (NA). |
| Vapor Pressure (mm Hg) | Negligible as solid. | Evaporation Rate (=1) | Non-volatile (NA). |
| Vapor Density (Air=1) | Data not listed. | | |
| Solubility in Water | 13.6 grams per 100 mL. water at 20°C. | | |
| Appearance & Odor | White crystals or crystalline powder; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | | |
|----------------------------------|---------------------|--|----|--------------|--------------|
| Flash Point (Method Used) | Non-flammable (NA). | Flammable Limits in Air % by Volume | NA | Lower | Upper |
| | | | | ----- | ----- |

Extinguisher Media Water spray; carbon dioxide (CO₂); dry chemical (ABC).

SPECIAL FIREFIGHTING PROCEDURES In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS Dangerous when heated to decomposition, it emits highly toxic fumes of oxides of sulfur and nitrogen. Thermal decomposition will produce cyanide fumes.

Autoignition Temperature: 440°C (824°F)

D.O.T. Toxic solids, organic, n.o.s., (Thiourea), 6.1, UN 2811, PG III

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