



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 860  
Effective Date April 22, 1999

## SECTION V HEALTH HAZARD DATA

PP 860

### Threshold Limited Value

None established. (ACGIH 1992-93).  
Toxicity data Oral rat LD50: > 5 g/kg.

### Effects of Overexposure

**INGESTION:** May cause gastrointestinal discomfort with nausea, vomiting, lethargy or diarrhea. **EYES:** May cause irritation. **SKIN:** May cause irritation. May cause allergic reaction in a very small proportion of individuals. **INHALATION:** Vapors or mists cause no adverse effect.

### Emergency and First Aid Procedures

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink and call physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION AS MIST:** 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 above 218°C (425°F). |
|           | Stable   | X |                     |   |

|                                      |                   |
|--------------------------------------|-------------------|
| Incompatibility (Materials to Avoid) | Strong oxidizers. |
|--------------------------------------|-------------------|

|                                  |   |
|----------------------------------|---|
| Hazardous Decomposition Products | Combustion will produce smoke, carbon dioxide and/or carbon monoxide. |
|----------------------------------|---|

|                          |                |                     |                 |
|--------------------------|----------------|---------------------|-----------------|
| 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 | Remove all ignition sources. Absorb material with an inert dry material and place in suitable container for disposal. 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 or contract with licensed chemical waste disposal agency.  |

## SECTION VIII SPECIAL PROTECTION INFORMATION

|                                       |                      |                |                          |
|---------------------------------------|----------------------|----------------|--------------------------|
| Respiration Protection (Specify Type) |                      | None needed.   |                          |
| Ventilation                           | Local Exhaust        | None needed.   | Special                  |
|                                       | Mechanical (General) | None needed.   | Other                    |
| Protective Gloves                     | Rubber.              | Eye Protection | Chemical safety glasses. |

|                            |  |
|----------------------------|--|
| Other Protective Equipment | Smock, apron, eye wash station, proper gloves. |
|----------------------------|--|

## 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. |
|---|--|

|                   |   |
|-------------------|---|
| Other Precautions | Read label on container before using. Do not wear contact lenses when working with chemicals. |
|-------------------|---|

Remove and wash contaminated clothing.

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

|          |       |      |         |          |                 |                             |    |
|----------|-------|------|---------|----------|-----------------|-----------------------------|----|
| Revision | No. 5 | Date | 4/22/99 | 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           | PROPYLENE GLYCOL                         | <div><div><div>1</div><div>0</div><div>0</div></div><div>CHEMTREC<br/>800-424-9300<br/>Day 716-226-6177</div><div>NFPA<br/>HAZARD RATING<br/>LEAST SLIGHT MODERATE<br/>0 1 2</div><div>HMIS *<br/>HIGH EXTREME<br/>3 4</div></div> |
| Chemical Synonyms | 1,2-Propanediol                          |  |
| Formula           | CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH |  |
| Unit Size         | up to 3.785 Lt.                          |  |
| C.A.S. No.        | 57-55-6                                  |  |

## SECTION II INGREDIENTS OF MIXTURES

|                                |      |                   |
|--------------------------------|------|-------------------|
| Principal Component(s)         | %    | TLV Units         |
| Propylene Glycol               | 100% | None established. |
| CAUTION! MAY CAUSE IRRITATION. |      |                   |

## SECTION III PHYSICAL DATA

|                        |   |   |                 |
|------------------------|---|---|-----------------|
| Melting Point (°F)     | Freezes at -59°C (-76°F)                    | Specific Gravity (H <sub>2</sub> O = 1) | 1.038 (20/20°C) |
| Boiling Point (°F)     | 187°C (370°F)                               | Percent Volatile by Volume (%)          | 100%            |
| Vapor Pressure (mm Hg) | 0.04 mm at 20°C                             | Evaporation Rate (Butyl Acetate =1)     | 0.005           |
| Vapor Density (Air=1)  | 2.62 at 187°C                               |   |                 |
| Solubility in Water    | Complete.                                   |   |                 |
| Appearance & Odor      | Clear, water white, oily liquid; mild odor. |   |                 |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

|                           |  |                                     |       |       |
|---------------------------|--|-------------------------------------|-------|-------|
| Flash Point (Method Used) | 107°C (225°F) COC  | Flammable Limits in Air % by Volume | Lower | Upper |
|                           |  |                                     | 2.6%  | 12.5% |
| Extinguisher Media        | Use water spray; dry chemical (ABC); "alcohol foam"; or carbon dioxide (CO <sub>2</sub> ). |                                     |       |       |

### SPECIAL FIREFIGHTING PROCEDURES

Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures and to dilute spills to non-combustible mixtures. Wear a self-contained breathing apparatus and protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

Autoignition Temperature: 415°C (779°F).

D.O.T. NON-REGULATED.

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