



**ALDON  
CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. FF 265  
Effective Date March 1, 1999

## SECTION V HEALTH HAZARD DATA

FF 265

### Threshold Limited Value

TWA calculated-33 ppm; 66 mg/m<sup>3</sup> (Air). Data for TWA computation taken from ACGIH 1992-93.

### Effects of Overexposure

May be fatal if swallowed. May be harmful by inhalation or skin absorption. To the best of our knowledge, this chemical mixture's physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards. Ethyl Alcohol causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. Formaldehyde-May be fatal if swallowed. Contact with skin may cause allergic irritation. Strong irritant to skin, eyes and mucous membranes. Suspected carcinogen.

### Emergency and First Aid Procedures

**INGESTION:** Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water. Call physician or Poison Control Center immediately. Induce vomiting if advised by physician or Poison Control Center. **SKIN:** Flush with water. **INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain immediate medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

## SECTION VI REACTIVITY DATA

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

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

| Hazardous Decomposition Products | When heated to decomposition, emits toxic fumes of carbon monoxide and/or carbon dioxide. |
|----------------------------------|---|
|----------------------------------|---|

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

## SECTION VII SPILL OR LEAK PROCEDURES

| Steps to be taken in case material is released or spilled | Remove all sources of ignition, provide adequate ventilation. For small spills, dilute with water and flush to sewer with copious amounts of water or absorb on vermiculite, paper, earth or other absorbent. Burn in an approved incinerator or open pit away from buildings and people. |
|---|---|
|---|---|

| 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.<br><br>Dispose of in an approved incinerator or contact with a licensed waste disposal service. |
|-----------------------|--|
|-----------------------|--|

## SECTION VIII SPECIAL PROTECTION INFORMATION

|                                       |   |   |  |                |                          |
|---------------------------------------|---|---|--|----------------|--------------------------|
| Respiration Protection (Specify Type) |   | In the laboratory, work in a ventilation hood. Wear a NIOSH/MSHA approved respirator with organic canister. |  |                |                          |
| Ventilation                           | Local Exhaust   | Recommended.  |  | Special        | No.                      |
|                                       | Mechanical (General)  | Recommended.  |  | Other          | No.                      |
| Protective Gloves                     |   | Rubber.   |  | Eye Protection | Chemical safety glasses. |
| Other Protective Equipment            | Smock, apron, eye wash station, ventilation hood, goggles, proper gloves. |   |  |                |                          |

## SECTION IX SPECIAL PRECAUTIONS

| Precautions to be Taken in Handling & Storing | Store in a cool place away from strong oxidizers or fire hazards. Use with adequate ventilation. Wash thoroughly after handling. |
|---|--|
|---|--|

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

Do not take internally. Avoid contact with skin and eyes. 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 | 3/1/99 | 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           | FORMALIN IN ALCOHOL PRESERVING FLUID |
|-------------------|--------------------------------------|
| Chemical Synonyms | All Purpose Fixative                 |
| Formula           | Mixture                              |
| Unit Size         | up to 4 Lt.                          |
| C.A.S. No.        | Mixture.                             |

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

NFPA  
HAZARD RATING

|       |        |          |      |         |
|-------|--------|----------|------|---------|
| LEAST | SLIGHT | MODERATE | HIGH | EXTREME |
| 0     | 1      | 2        | 3    | 4       |

HMIS \*  
Health 3  
Fire 3  
Reactivity 1

## SECTION II INGREDIENTS OF MIXTURES

| Principal Component(s)                      | %     | TLV Units       |
|---|-------|-----------------|
| Ethyl Alcohol (denatured): CAS No. 64-17-5. | 72.5% | 1000 ppm (Air). |
| Formaldehyde (as HCHO): CAS No. 50-00-0.    | 10%   | 2 ppm (Air).    |
| <b>DANGER! FLAMMABLE! POISON</b>            |       |                 |
| <b>MAY BE FATAL IF SWALLOWED. IRRITANT.</b> |       |                 |

## SECTION III PHYSICAL DATA

|                        |  |   |                 |
|------------------------|--|---|-----------------|
| Melting Point (°F)     | Freezing point -80°C (-112°F) (Alc.)                   | Specific Gravity (H <sub>2</sub> O = 1) | 0.795 @ 20/20°C |
| Boiling Point (°F)     | 74.5-79.5°C (163-174°F) (Alc.)                         | Percent Volatile by Volume (%)          | 100%            |
| Vapor Pressure (mm Hg) | Ca 42 @ 68°F (Alc.)                                    | Evaporation Rate (Ether = 1)            | 4.1             |
| Vapor Density (Air=1)  | Ca 1.6 (Alcohol.)                                      |   |                 |
| Solubility in Water    | Complete.  |   |                 |
| Appearance & Odor      | Clear, water white liquid; alcohol, formaldehyde odor. |   |                 |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

| Flash Point<br>(Method Used) | (70°F) 21°C TCC (Alcohol).  | Flammable Limits in Air<br>% by Volume | Alcohol | Lower    | Upper     |
|------------------------------|---|--|---------|----------|-----------|
|                              |   |  |         | About 3% | About 19% |
| Extinguisher<br>Media        | Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); water spray. |  |         |          |           |

### SPECIAL FIREFIGHTING PROCEDURES

Evacuate personnel to an area of upwind direction. Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

#### Contains: Denaturents

Methanol: CAS No. 67-56-1; Ethyl Acetate: CAS No. 141-78-6; Water: CAS No. 7732-18-5  
Methyl Isobutyl Ketone: CAS No. 108-10-1; Rubber Hydrocarbon Solvent: CAS No. 64742-89-8

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 127)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors formed from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at location distant from handling point. **CAUTION:** Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. DENATURED ALCOHOL, (SOLUTION), 3, NA 1987, PG ||

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