

**ARGENT** Chemical Laboratories



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Primary Manufacturing Chemist

NFPA Ratings

Flammability

Health



Reactivity

Specific

# MATERIAL SAFETY DATA SHEET

## Paracide-F (Formaldehyde Solution)

### SECTION I - PRODUCT IDENTIFICATION

**DATE:** February 22<sup>nd</sup>, 2008

**PRODUCT NAME AND SYNONYMS:** Paracide-F, 37% Formaldehyde Solution, 12% Methanol, inhibited, FFFO 4412

**CAS NO. AND NAME:** CAS # 50-00-0 Formaldehyde, 67-58-1 Methanol

**CHEMICAL FAMILY:** Aliphatic aldehyde

**CHEMICAL FORMULA:** CH<sub>2</sub>O

**MANUFACTURER'S NAME AND ADDRESS:** ARGENT CHEMICAL LABORATORIES  
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### SECTION II - HAZARDOUS COMPONENTS

COMPONENTS:	Formaldehyde	Methanol
CAS #: 50-00-0	CAS #: 67-58-1	
% BY WEIGHT: 37.0 - 37.5	% BY WEIGHT: 15.0 max.	
ACGIH TLV: CEIL: 0.3 ppm	ACGIH TLV: TWA: 200 ppm STEL: 250 ppm (skin)	
OSHA PEL: TWA: 0.75 ppm STEL: 2 ppm	OSHA PEL: TWA: 200 ppm	

(skin) This notation indicates that absorption through skin can contribute significantly to overall exposure. TWAs are 8 hour exposures unless otherwise noted. STELs are 15 minute exposures unless otherwise noted.

### SECTION III - HAZARDS IDENTIFICATION

HMS:

Health Hazard	3
Env. Hazard	2
Reactivity	1
Personal Protection	0

**Note:** Personal protective equipment (PPE) is related conditions of use. Determination of PPE is the responsibility of the employer. Refer to Section VIII - Personal Protection of this MSDS for recommendations.

(Section continued on next page)

## SECTION VI - ACCIDENTAL RELEASE MEASURES

### SPILL AND LEAK PROCEDURES:

- Turn off all sources of heat or ignition.
- Stop leak if you can do so without risk.
- Ventilate area with explosion-proof equipment.
- Use PPE appropriate to spill size and risk of exposure.
- Confine spillage and absorb with earth, sand or other non-combustible absorbent material.
- Neutralize the area with sodium sulfite, sodium bisulfite or a dilute ammonia solution.
- Retain all contaminated water for removal and treatment. DO NOT flush to sewer.

## SECTION VII - HANDLING AND STORAGE

### HANDLING:

- Flammable liquid. Avoid contact with eyes, skin, and clothing. Use proper protective equipment. (see Section VIII - Personal Protection)
- Avoid breathing mist or vapor. Use only in a well ventilated area.
- Ground and bond containers when transferring material. Use explosion-proof pumps.
- Unvented containers may develop pressure. Open with caution.
- Wash thoroughly after handling.
- Eyewash stations and safety showers should be easily accessible to areas where product is used.

### STORAGE:

- Keep away from heat, sparks, open flame or other sources of ignition.
- Do not store portable containers in direct sunlight.
- Keep containers closed when not in use.
- For maximum storage life, store at temperatures between 59 - 86°F (15 - 30°C)
- Protect from freezing.
- Store away from incompatible materials. (see Section X - Stability and Reactivity Data)

## SECTION VIII - PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**EYES AND FACE:** Face shield with safety glasses or chemical safety goggles.

**SKIN:** Rubber or neoprene gloves. Wear additional protective clothing as appropriate to protect skin. Chemical resistant apron or other impervious clothing, full protective suit, rubber boots.

**RESPIRATORY:** If feasible engineering controls do not prevent overexposure, a full-face respirator with cartridges approved by NIOSH/MSHA for formaldehyde, organic vapors and dusts / mists may be used only when exposure levels are known to be within the unit's capability. Use positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or in any situation where air purifying respirators may not provide adequate protection.

**ENGINEERING CONTROLS:** Use ventilation as necessary to keep exposure to airborne contaminants below the exposure limits. Use explosion-proof ventilation equipment.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL APPEARANCE:** Colorless, clear to slightly hazy liquid.

**ODOR:** Pungent, irritating.

**pH (as is):** 2.0 - 4.0

**BOILING POINT:** Approximately 210°F (98.9°C)

**MELTING POINT:** Not applicable

**SPECIFIC GRAVITY (25°C):** Approximately 1.08

**VAPOR PRESSURE (mm Hg):** Approximately 24 @ 77°F (25°C)

**VAPOR DENSITY (air = 1):** Approximately 1.03

**% VOLATILE (w/w):** Approximately 100%.

**SOLUBILITY IN WATER:** Soluble.

## SECTION XIII - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of absorbed material in accordance with all Federal, State and Local regulations. Dispose of contaminated water in a contained waste treatment system.

**RCRA:** This product has a flash point less than 140° F. Upon disposal, it would be considered a hazardous waste exhibiting the characteristic of ignitability (Hazardous Waste No. D001). Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

## SECTION XIV - TRANSPORTATION INFORMATION

**DOT:** Regulated as indicated below.

Shipping Description	Rail Cars & Tank Trucks	Tote-bins or Drums
Proper shipping name:	Formaldehyde, solutions, flammable	Formaldehyde, solutions, flammable
Hazard class:	3, (8)	3, (8)
Identification number:	UN1198	UN1198
Packing group:	III	III
Reportable Quantities:	RQ (Formaldehyde, Methanol)	RQ (Formaldehyde)
Placards / Labels:	Placards: Flammable	Labels: Flammable liquid, Corrosive
Special provisions for transport:	None	RQs may not apply to smaller quantity shipments. When shipping by air, consult the IATA regulations.

## SECTION XIV - TRANSPORTATION INFORMATION

**FEDERAL REGULATIONS:** The following regulations may have reporting requirements for the components listed. See "Key to Abbreviations and Acronyms" under Section XVI - Other Information for definitions.

**CERCLA / SARA - EMERGENCY REPORTING:** A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from Federal requirements. Consult counsel for further guidance on your responsibilities under these laws.

Formaldehyde, Methanol

**SARA TITLE III SECTION 313 - SUPPLIER NOTIFICATION:** This product is known to contain the following chemicals which are listed in 40 CFR 372.65 as toxic chemicals requiring notification. This information must be included in all MSDS's that are copied and distributed for this product.

Component	CAS#	% by Weight
Formaldehyde	50-00-0	37.0- 37.5
Methanol	67-58-1	13

**CWA SECTION 307:** The following chemicals are listed under Section 307 as toxic pollutants not eligible for waiver from best available technology economically achievable (BAT) effluent limitations.  
Not applicable.

**CWA SECTION 311:** The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA.  
Formaldehyde

**TECA:** All components of this product are listed on the Toxic Substances Control Act inventory or are excluded from listing requirements.

**OTHER REGULATIONS:** This product has NOT been registered for use as a pesticide under Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

See the OSHA Formaldehyde Standard 29 CFR 1910.1045 for worker training, workplace monitoring and medical surveillance requirements.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):** This product contains the following substance(s) known to the State of California to cause cancer:

Formaldehyde

**Canada:** All components of this product are listed on the Canadian Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.