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Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

## Section I - Product Identification

An aqueous solution of formic acid, formaldehyde and methanol.

## Section II - Hazards Identification

Overview: Harmful if swallowed. Fumes are irritating to skin eyes and respiratory tract. Inhalation of formaldehyde can lead to congestion, coughing and shortness of breath. Frequent skin contact leads to drying and scaling. Ingestion will damage the throat, stomach and intestines resulting in nausea, vomiting, abdominal pain and diarrhea. Lowered blood pressure, spontaneous abortion, loss of consciousness and kidney damage may result. Inhalation of high concentrations of vapor (14 ppm) have caused cancer in laboratory animals. Genetic damage in bacteria has been demonstrated.

### Safety Ratings

Health: Hazardous Flammability: Slight Reactivity: None Contact: Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 0



### Potential Health Effects

*Inhalation:* Irritating to respiratory tract. May cause asthma like symptoms in sensitive individuals.

*Ingestion:* Can cause irritation and chemical burns to the mouth, throat, esophagus and stomach. Can also cause nausea, vomiting, diarrhea, etc.

*Skin contact:* May cause skin irritation or aggravation of existing dermatitis. May cause temporary discoloration of the skin.

*Eye contact:* Vapors may cause stinging sensation and tearing. Solution contact can cause corneal injury which can cause visual impairment if not dealt with immediately.

*Aggravation of preexisting conditions:* May aggravate preexisting asthma and other lung diseases.

## Section III - Composition/Information on Components

Ingredients	CAS#	OSHA PeI	ACGIH TLV	Other Limits	%
Formic acid	64-18-6	5 ppm (TWA)	5 ppm (TWA)		11%
Formaldehyde	50-00-0	0.75 ppm (TWA)	0.3 ppm (CEIL)		2%
Methanol	67-56-1	200 ppm (TWA)	250 ppm (STEL)		0.5%

## Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Drink large quantities of fluids and call a physician immediately. Administer activated charcoal or other adsorbent if available.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Immediately flush thoroughly with running water for at least 15 minutes. Get immediate medical advice.

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## Section V - Fire Fighting Measures

*Flash Point (method used):* Not applicable

*Flammable Limits:* Not applicable

*Extinguishing Media:* Dry chemical, carbon dioxide or alcohol type foam.

*Special Fire Fighting Procedures:* Use self-contained breathing apparatus and full protective clothing.

*Unusual Fire And Explosion Hazards:* Pyrolysis will release toxic compounds such as carbon monoxide and formaldehyde.

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## Section VI - Accidental Release Measures

Wear appropriate protective gear such as gloves, apron and protective eye wear. Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal. Large spills may be neutralized with formalin neutralizers.

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## Section VII - Handling and Storage

Store in a closed container at controlled room temperature, 59°F to 86°F (15°C to 30°C).

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Use appropriate ventilation. Laboratory fume hoods or similar apparatus are recommended for handling formaldehyde solutions. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Required if threshold limit value for formaldehyde is exceeded. In case of emergency, or when exposure levels are unknown, use a half face or full face respirator with organic vapor cartridges.

*Skin protection:* Chemical resistant gloves are recommended.

*Eye Protection:* Laboratory safety goggles, safety glasses or face shield are required.

People who regularly work with formaldehyde are required to have regular medical surveillance.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 98 - 99°C

*Specific Gravity:* 1.03

*Vapor pressure (mm Hg):* 18 @ 20°C

*Evaporation Rate (water = 1):* 1

*Vapor Density (air = 1):* 1

*Solubility In Water:* Complete

*Appearance and Odor:* Clear colorless solution. Characteristic odors of formaldehyde and formic acid.

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

*Toxicity:* The chronic toxicity of this product is unknown but may include sensitization in sensitive individuals. Formaldehyde is a known human carcinogen

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Formaldehyde	yes	no	yes	2A
Methanol	no	no	no	none
Formic acid	no	no	no	none

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## Section XII - Ecological Information

*Environmental Fate:* Biodegradable

*Environmental Toxicity:* Formaldehyde is toxic to fish.

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### Section XIII - Disposal Considerations

Incineration is the preferred disposal method for formaldehyde. Local governments often restrict the amounts of formaldehyde that may be flushed down the drain. Insure compliance with all government regulation.

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### Section XIV - Transportation Information

Not regulated.

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### Section XV - Regulatory Information

#### Chemical Inventory Status

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Formaldehyde	Yes	Yes
Methanol	Yes	Yes
Formic Acid	Yes	Yes

#### Federal, State and International Regulations

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Formaldehyde	100	500	Yes	No	U122	No	Yes
Methanol	No	No	Yes	No	U154	No	Yes
Formic acid	No	No	Yes	No	U123	No	No

<u>Ingredient</u>	<u>Chemical Weapons Convention</u>	<u>TSCA 12(b)</u>	<u>CDTA</u>
Formaldehyde	No	No	No
Methanol	No	No	No
Formic acid	No	No	No

#### SARA 311/312

<u>Ingredient</u>	<u>Acute?</u>	<u>Chronic?</u>	<u>Fire?</u>
Formaldehyde	Yes	Yes	No
Methanol	Yes	Yes	Yes
Formic acid	Yes	Yes	Yes

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### Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

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