

## MATERIAL SAFETY DATA SHEET

1 OF 2

### Section I: IDENTIFICATION

*Product Name:* **Formaldehyde**

*Date Prepared:* 05/2/03

*Item Number:* 3323, 3324, 3328

*Emergency Phone:* 800-424-9300

### Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>		<b>NFPA</b>	
Formaldehyde 36.5%	50-00-0	0.75	0.3/2	Health	3
Methanol 12%	67-56-1	200	200/250	Flammability	1
				Reactivity	0

### Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~ 210°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20°C:</i>	NR	<i>Percent Volatile by Vol:</i>	Minimal
<i>Vapor Density (Air 1:1):</i>	~1	<i>Evaporation Rate (ether = 1):</i>	Minimal
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Clear liquid/bitter odor

### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* NA                      *Flammable Limits:* LEL, NA                      UEL, NA  
*Extinguishing Media:* Water Spray, Dry Chemical, CO<sub>2</sub> and foam  
*Special Fire Fighting Procedures:* Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.  
*Unusual Fire & Explosion Hazards:* Under fire conditions CO and gaseous formaldehyde may be released.

### Section V: REACTIVITY

*Stability:* Stable                      *Material to Avoid:* Strong acids etc and strong oxidizing agents.  
*Hazardous Decomposition or Byproducts:* Oxides of carbon, phosphates  
*Hazardous Polymerization:* Does not occur                      *Conditions to Avoid:* Excessive heat

### Section VI: HEALTH HAZARDS

#### **Potential Cancer Hazard**

*Routes of Entry:* Inhalation, Skin and Ingestion  
*Acute:* Vapors will cause eyes, skin and respiratory irritation or burning and allergic reaction.  
*Chronic:* May cause burning to eyes, skin and intestinal tract, gastrointestinal disturbances, convulsions, circulatory problems, respiratory system and hypersensitivity towards dermatitis.  
*Carcinogenicity:* Suspect human carcinogen.  
*Signs/Symptoms of Exposure:* Immediate eyes and respiratory irritation.

## MATERIAL SAFETY DATA SHEET

2 OF 2

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### **Section VI: HEALTH HAZARDS**

*Emergency First Aid:*

**Skin:** Remove contaminated clothing. Wash affected area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.

**Ingestion:** Induce vomiting immediately as directed by medical personnel and contact a physician

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### **Section VII: SAFE HANDLING**

*Chemical Release or Spill:* Wear full respiratory protection and isolate the spill area with sand, or other absorbent material. Place all contaminated material in close container for disposal. Neutralize with chemical absorbent kit commercially available. Do not allow material to drain in sewers or surface water.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Use normal laboratory precautions. Avoid excessive heat.

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### **Section VIII: CONTROL MEASURES**

*Respiratory Protection:* Not required if used in a ventilated area.

*Ventilation:* Local ventilated areas (hood) are the preferred working environment.

*Protective Gloves:* Chemical resistant

*Eye Protection:* Safety Glasses

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astral Diagnostics, Inc. shall not be held liable for any damage resulting from handling or contact with this product.

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