

MATERIAL SAFETY DATA SHEET

Section I: IDENTIFICATION

Product Name: **FORMALIN 20%, v/v**
Neutral Buffered, pH 7.0

Date Prepared: 04-11-03
Item Number: 3621
Emergency Phone: 800-424-9300

Section II: INGREDIENTS

Component(s):	CAS#	OHSA PEL, ACGIH TLV/STEL	NFPA
Formaldehyde	10% 50-00-0	0.75 ppm 0.3/2ppm	Health 3
Sodium Phosphate, Mono	< 1% 7758-80-7	NA	Flammability 0
Sodium Phosphate, Dibasic	< 1% 7558-79-4	NA	Reactivity 0

Section III: PHYSICAL DATA

Boiling Point: ~ 210°F
Vapor Pressure mm Hg/20°C: NR
Vapor Density (Air 1:1): ~1
Solubility in H₂O: Complete

Specific Gravity (H₂O = 1): ~1
Percent Volatile by Vol: Minimal
Evaporation Rate (ether = 1): Minimal
Appearance & Odor: Clear liquid/bitter odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: NA
Extinguishing Media: Water Spray, Dry Chemical, CO₂ 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
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 may 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.

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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.

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.

Section VIII: CONTROL MEASURES

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

Ventilation: Local ventilated areas 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.

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