

M S D S***Material Safety Data Sheet***

24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

189 Twin County Road • Morgantown, PA 19543 19341 • (610) 524-5810

FORMALIN SOLUTION 10% Neutral Buffered MATERIAL SAFETY DATA SHEET

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

Product Identification				
Product Name:	10% Neutral Buffered Formalin			
Product Code:	PFNBF-3840, NBF-30G, NBF55G			
Product Description:	A buffered aqueous solution of formaldehyde and methanol			
	Health	3		
	Flammability	0		
	Reactivity	0		
	Physical Hazard	None		
Section 1 - Shipping Data				
DOT Shipping Name:*	Ground shipments Not regulated	Tel. # for information:	(610) 524-5810	
DOT Hazard Class:	Not applicable	Emergency Tel. #:	(800) 424-9300	
DOT Identification:	Not applicable			
Section 2 - Hazardous Ingredients / Identity Information				
CHEMICAL COMPONENTS	CAS#	%	OSHA PEL	ACGIH TLV
Formaldehyde	50-00-0	3-4%	0.75 ppm	0.3/2ppm
Methyl Alcohol	67-56-1	~1%	200 ppm TWA	200 ppm STEL
Sodium Phosphate Monobasic	7558-80-7	<1	N/A	N/A
Sodium Phosphate Dibasic	7558-79-4	<1	N/A	N/A
Section 3 - Physical / Chemical Characteristics				

Boiling Point:	~210°F	Specific Gravity (H₂O = 1):	~1
Vapor Pressure (mm Hg and Temperature):	N/A	Evaporation Rate (n-butyl alcohol= 1):	Minimal
Vapor Density (AIR=1):	~1	Solubility in Water:	Complete
Appearance and Odor: Clear liquid bitter odor.			

Section 4 - Fire and Explosion Hazard Data

Flash Point (Method Used): Not applicable **Flammability Limits:** Not applicable
Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.
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 and Explosive Hazards: Under fire conditions CO and gaseous formaldehyde may be released.

Section 5 - Reactivity Data

Stability: Stable **Conditions to Avoid:** Strong acids etc and strong oxidizing agents.
Incompatibility (Materials to Avoid): Strong oxidizers, strong alkalis, acids, phenol, urea.
 Hazardous polymerization: Does not occur.
Precautions to be taken in Handling and Storage: Store at room temperature. Do not freeze.

Section 6 - Health Hazard Data

Routes of Entry	Inhalation?	Skin Absorption?	Ingestion?
	yes	yes	yes
Carcinogenicity?	NTP?	IARC Monographs?	OSHA Regulated?
yes	no	yes	yes

Health Hazards (Acute and Chronic): . Target organs are the eyes, skin, and respiratory system. In the eyes it can cause irritation, redness and pain. Skin- may cause irritation, redness and pain. Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis. Inhalation- causes irritation of respiratory tract, Symptoms may include sore throat, coughing and shortness of breath. Ingestion- may cause severe abdominal pain, vomiting, headache and diarrhea.

Medical Conditions Generally Aggravated by Exposure: People who regularly work with formaldehyde are required to have regular medical surveillance.

Emergency and First Aid Procedures: *Seek medical assistance for further treatment, observation and support if necessary.*
Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Get medical attention immediately.
Skin Contact: Flush with water for at least 15 minutes.
Ingestion: Dilute immediately with water or milk. Induce vomiting. Contact a physician.
Inhalation: Remove to fresh air. Give artificial respiration if necessary.
 All other means of exposure: Contact poison control center immediately. Be prepared to provide hazardous ingredient information.

Section 7 - Precautions For Safe Handling and Use

Steps to be Taken In Case of Spill Or Release: **Absorb with a suitable absorbent (such as paper towel) and dispose.**
Waste Disposal Methods: Whatever cannot be saved for recovery or recycling should be disposed of in a RCRA approved waste disposal facility. Dispose of in accordance with local, state, and federal regulations.

Section 8- Control Measures

Respiratory Protection (Specify Type): If the exposure level is exceeded, wear a full face piece respirator equipped with a formaldehyde cartridge.

Ventilation: Use of a fume hood is recommended.

Protective Gloves: Required.

Eye Protection: Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

Other Protective Clothing And Equipment: Use chemical resistant clothing.

Hygienic Work Practices: Wash well after handling, especially before eating and smoking.

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