

Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Formalin 10% Neutral Buffered Solution	
Product #:	F-2467	
Synonyms:	-	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC #	Composition
Water	7732-18-5	231-791-2	Q. S
Formaldehyde	50-00-0	200-001-8	≤4.0 g/L
Sodium Phosphate Dibasic	7558-79-4	231-448-7	6.5 g/L
Sodium Phosphate Monobasic	7558-80-7	231-449-2	4.0 g/L

Symbols Symbols HMIS Classification



NFPA	FLAMMABILITY
Classification	HEALTH THER THER THER

Section 4: First Aid Measures

General	Consult a doctor and show this safety data sheet.
Overview:	
Inhalation:	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
Skin:	Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
Eyes:	Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
Ingestion:	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of	No data available
the product:	
Extinguishing	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Media:	
Hazardous	Formaldehyde Methanol Carbon monoxide (CO), Carbon dioxide (CO2)
thermal	
(de)composition	
products:	
Special Fire	Wear suitable protective clothing to prevent contact with skin and eyes and
Fighting	self-contained breathing apparatus.
Procedures:	
Flash Point:	No data available

Section 6: Accidental Release Measures

Personal	Do not take action without suitable protective clothing - see section 8 of SDS.
Precautions:	Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid
	breathing vapors, mist, dust, or gas.



Environmental	Do not let product enter drains.
Precautions:	
Methods for	Cover spillage with suitable absorbent material. Using non-spark tools, sweep
Clean-up:	up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

SECTION 7: Handling & Storage

Storage:	Store in cool, well-ventilated area. Keep away from direct sunlight. Keep
	container tightly sealed until ready for use. Keep in a dry place. Store at 2-8°C.
Handling:	Use in a chemical fume hood, with air supplied by an independent system.
	Avoid inhalation, contact with eyes, skin, and clothing. Avoid the formation of
	dust and aerosols. Use in a well-ventilated area. Keep away from sources of
	ignition. Avoid prolonged or repeated exposure.

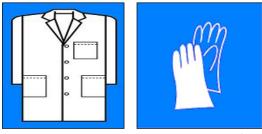
SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Skin and Body:



Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be



	selected according to the concentration and amount of the dangerous substance at the specific workplace.
Eyes:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Ventilation/Engineering Measures:	Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

Appearance &	Ckear and colorless solution
Odor:	
Formula	N/A
Molecular Wt.	N/A
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	No data available
Flash Point:	No data available
Autoignition	No data available
Temp:	

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Formaldehyde, Methanol, Carbon monoxide (CO), Carbon dioxide (CO ₂).	
Materials to Avoid:	Strong oxidizing agents, Strong acids, Strong bases	
Conditions to avoid:	Incompatible products. Heat, flames and sparks.	



SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	Formaldehyde (CAS 50-00-0) LD50 Oral: 500 mg/kg (Rat) LD50 Dermal: 270 mg/kg (Rabbit) LD50 Inhalation: 0.578 mg/L (Rat) 4 h Sodium Phosphate Dibasic (CAS 7558-79-4) LD50 Oral: 17 g/kg (Rat) LD50 Dermal: Not listed LD50 Inhalation: Not listed Sodium Phosphate Monobasic (CAS 7558-80-7) LD50 Oral: 8290 mg/kg (Rat) LD50 Dermal: 7940 mg/kg (Rabbit) LD50 Inhalation: Not listed	
CHRONIC Toxicity:	Yes	
Chronic Exposure: Carcinogen: Mutagen:	IARC: Group 1 (Carcinogenic to Humans) AGGIH: A2 (Suspected Human Carcinogen) NTP: Known (Carcinogen)	
Teratogen: Reproductive:	OSHA: Listed EPA: No classification on carcinogenic data is available from EPA	

SECTION 12: Ecological Information

Ecotoxicity:	Formaldehyde (CAS 50-00-0)
	Freshwater Fish: <i>Leusiscus idus</i> : LC50 = 15 mg/L 96h
	Microtox: Not listed
	Water Flea: EC50 = 20 mg/L 96h, EC50 = 2 mg/L 48h
Mobility:	Formaldehyde (CAS 50-00-0)
	log Pow: -0.35
Persistence and	No data available
degradability:	
Bioaccumulative	No data available
potential:	
Other adverse	No data available
effects:	
Corrosivity	No data available
Characteristic:	
General Notes:	To the best of our knowledge, the chemical, physical and toxicological
	properties have not been thoroughly investigated.



SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
	Formaldehyde (CAS 50-00-0) RCRA – U Series Wastes: U122
Contaminated Packaging:	Treat as unused product.

SECTION 14: Transportation Information		
UN ID#:	N/A	
ADR / RID (LAND):	Not regulated	
DOT regulations:	Not regulated	
IMDG/IMO (SEA):	Not regulated	
IATA/DGR (AIR):	Not regulated	
Special Provisions:	N/A	

SECTION 15: Regulatory Information		
Health Phrases:	 H315 Skin corrosion/irritation Category 2 H317 Skin Sensitisation Category 1 H318 Serious eye damage Category 1 H350 Carcinogenicity Category 1A H370 Specific target organ toxicity - single exposure Category 1 H371 Specific target organ toxicity - single exposure Category 2 H373 Specific target organ toxicity, repeated exposure Category 2 	
Risk Phrases:		
Safety Phrases:	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling P270 Do not eat, drink, or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present 	



	and easy to do. Continue rinsing.
	P308 + P311 IF exposed or concerned: call a POISON CENTER or doctor/
	physician
	P314 Get medical advice/attention if you feel unwell.
	P321 Specific treatment (see. on this label).
	P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
	P362 + P364 Take off contaminated clothing and wash before reuse.
	P405 Store locked up.
	P501 Dispose of contents/ container to an approved waste disposal plant
EU Regulations:	N/A
US Regulations:	TSCA: Water (CAS 7732-18-5), Formaldehyde (CAS 50-00-0), Sodium
	Phosphate Dibasic (CAS 7558-79-4), Sodium Phosphate Monobasic (CAS
	7558-80-7)
	California Proposition 65: Formaldehyde (CAS 50-00-0) 40 μ g/day
	Massachusetts State Right to Know: Formaldehyde (CAS 50-00-0)
	New Jersey State Right to Know: Formaldehyde (CAS 50-00-0)
	Pennsylvania State Right to Know: Formaldehyde (CAS 50-00-0)
	Illinois State Right to Know: Formaldehyde (CAS 50-00-0)
	Rhode Island State Right to Know: Formaldehyde (CAS 50-00-0)
	U.S. Department of Homeland Security: Formaldehyde (11250 lb STQ
	solution), Sodium Phosphate Monobasic (2000 lb STQ)
U.S. Federal	SARA 311/312 MSDS distribution-chemical inventory-hazard
Regulations:	identification: Acute hazard (Yes), Chronic Hazard (Yes)
	SARA 313 toxic chemicals notification and release reporting:
	Formaldehyde (CAS 50-00-0), Weight 3.7%, Threshold Value 0.1%
	Clean Water Act
	Formaldehyde (CAS 50-00-0), 100 lb
	Sodium Phosphate Dibasic (CAS 7558-79-4), 5000 lb
	Clean Air Act
	Formaldehyde (CAS 50-00-0), HAPS Listed
	OSHA: Formaldehyde (CAS 50-00-0), 2 ppm STEL 0.5 ppm Action Level
	0.75 ppm TWA, TQ: 1000 lb
WHMIS (Canada):	This product has been classified in accordance with the hazard criteria of
	the Controlled Products Regulations (CPR) and the MSDS contains all the
	information required by the CPR.
μ	

SECTION 16: Other Information



LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be allinclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.