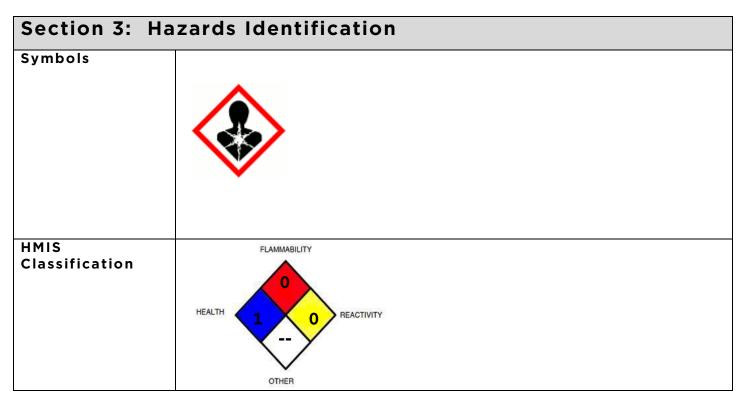


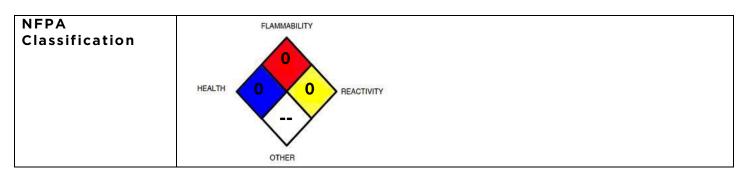
Safety Data Sheet

Section 1: Product & Company Identification	
Product Name:	PVDF Membrane Stripping Buffer 4X Solution
Product #:	P-2903
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#	Concentration
Water	7732-18-5	Q.S
Tris-HCl	1185-53-1	250 mM
SDS	151-21-3	8%







Section 4: First Aid Measures	
General Overview:	Consult a doctor and show this safety data sheet.
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 the product:	No data available	
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Hazardous thermal (de)composition products:	No data available	
Special Fire Fighting Procedures:	Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.	
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. 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. Do not let product enter drains.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties		
Appearance &	Liquid	
Odor:		
Formula	N/A	
Molecular Wt.	N/A	
Melting Pt.	No data available	
Boiling Pt.	No data available	
рН	6.8	
Vapor Pressure:	No data available	
Evaporation Rate:	No data available	
Vapor Density:	No data available	
Solubility:	Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity	
Stability:	Stable under recommended storage conditions
Hazardous	No data available
decomposition products:	
Materials to Avoid:	Strong oxidizing agents, bases



Conditions to avoid: No data available

SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	Sodium Dodecyl Sulfate LD50 Oral = 1,288 mg/kg (Rat) LD50 Dermal = 580 mg/kg (Rabbit) LD50 Inhalation = 3,900 mg/m³ (Rat) 1h	
CHRONIC Toxicity:	Sodium Dodecyl Sulfate Toxicity to Fish LC50 15-18.9 mg/L Pimephales promelas 96 h LC50 4.06-5.75 mg/L Lepomis macrochirus 96 h LC50 4.2-4.8 mg/L Lepomis macrochirus 96 h LC50 6.2-9.6 mg/LPimephales promelas 96 h LC50 = 4.2 mg/L Oncorhynchus mykiss 96 h LC50 13.5-18.3 mg/L Poe cilia reticulate 96 h LC50 5.8-7.5 mg/L Pimephales promelas 96 h LC50 9.9-20.1 mg/L Brachydanio rerio 96 h LC50 10.2-22.5 mg/L Pimephales promelas 96 h LC50 8-12.5 mg/L Pimephales promelas 96 h LC50 = 4.5 mg/L Lepomis macrochirus 96 h LC50= 4.62 mg/L Oncorhynchus mykiss 96 h LC50 10.8-16.6 mg/L Poe cilia reticulate 96 h LC50 4.3-8.5 mg/L Oncorhynchus mykiss 96 h LC50 1.31 mg/L Cyprinus carpio 96 h LC50= 7.97 mg/L Brachydanio rerio 96 h	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA	

SECTION 12: Ecological Information	
Ecotoxicity:	No data available
Mobility:	No data available



Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
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.	
Contaminated Packaging:	Dispose of container and unused contents in accordance with federal, state, and local requirements.	

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: Re	gulatory Information
Health Phrases:	H315 Causes skin irritation
	H317 May cause an allergic skin reaction
	H319 Cause Serious Eye irritation
	H334 May cause allergy or asthma symptoms or breathing difficulties if
	inhaled
	H335 May cause respiratory irritation
Risk Phrases:	P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264 Wash skin thoroughly after handling
	P271 Use only outdoors or in a well-ventilated area.
	P272 Contaminated work clothing should not be allowed out of the workplace.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P285 In case of inadequate ventilation wear respiratory protection
Safety Phrases:	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.



	DZO4 + DZ40 IF INITIAL FD. Domenie vietim to freeh ein and keep at west in a
	P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing.
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
	P321 Specific treatment (see. on this label).
	P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 If eye irritation persists: Get medical advice/attention.
	P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER
	or doctor/physician.
	P362 + P364 Take off contaminated clothing and wash before reuse.
	P403 + P233 Store in a well-ventilated place. Keep container tightly
	closed.
	P405 Store locked up.
	P501 Dispose of contents/ container to an approved waste disposal plant
EU Regulations:	N/A
US Regulations:	TSCA: No products listed
	California Proposition 65: No products listed
	New Jersey State Right to Know: Listed
	Pennsylvania State Right to Know: Listed
U.S. Federal	SARA 302/304 emergency planning and notification: No products were
Regulations:	found.
Regulations:	
	SARA 311/312 MSDS distribution-chemical inventory-hazard
	identification: Acute Health Hazard
	SARA 313 toxic chemicals notification and release reporting: No products
	were found.
	Clean Water Act (CWA) 307: No products were found.
	Clean Water Act (CWA) 311: No products were found.
	Clean Air Act (CAA) 112 accidental release prevention: No products were
	found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products
	were found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were
	found.
	OSHA: No products were found.
WHMIS (Canada):	This product has been classified in accordance with the hazard criteria of
	the Controlled Products Regulations (CPR) and the SDS contains all the
	information required by the CPR.
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SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive 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.