



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard 2 Fire Hazard 1	
\sim	Reactivity 0	See Section 15.

Section 1. Chem	ical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	PIPES, monosodium salt	Catalog Number(s).	P1051
		CAS#	10010-67-0
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: PIPES, monosodium salt
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Sodium hydrogen piperazine-1,4-diethanesulphonate; 1,4-Piperazinediethanesulfonic acid, monosodium salt	IN CASE OF EMERGENCY	
Chemical Name	[Piperazine-N,N'-bis-(2-Ethanesulfonic Acid), Sodium Salt] Monosodium salt	, ,	<u>(24hr) 800-424-9300</u>
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	C8-H17-N2-Na-O6-S2		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) PIPES, monosodium salt		10010-67-0				100
Toxicological Data on Ingredients	PIPES, monosodiur LD50: Not available LC50: Not available			T		Γ
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.					
Potential Chronic Health Effects	Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MITAGENIC EFFECTS: Not available.					

 CARCINOGENIC EFFECTS: Not available.

 MUTAGENIC EFFECTS: Not available.

 TERATOGENIC EFFECTS: Not available.

 DEVELOPMENTAL TOXICITY: Not available.

PIPES, monosodium salt

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. See attention.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	
Serious Ingestion	Not available.	

Section 5. Fire and E	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), sulfur oxides (SO2, SO3). Some metallic oxides.		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		
Section 6. Accidental Release Measures			

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	Not available.	

Section 9. Physical and Chemical Properties

Section 9. Filysical a	and Chemical Properties		
Physical state and appearance	Solid.	Odor	Odorless.
Molecular Weight	324.4 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	White.
Boiling Point	Not available.		
Melting Point	Decomposition temperature: >300°C (572°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Partially soluble in cold water. Solubility in water: 10% to give clear, colorles	ss solution	
Section 10. Stability	and Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Heat, incompatible materials, moisture		
Incompatibility with various substances	Reactive with oxidizing agents.		

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PIPES, monosodiui	m salt	Page Number: 4
Corrosivity	Not available.	
Special Remarks on Reactivity	Protect from moisture	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	
Section 11. Toxicolo	ogical Information	
Routes of Entry	Inhalation. Ingestion.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation.	

Skin. May cause skin initiation.
Eyes: May cause eye irritation.
Inhalation: May cause respiratory tract irritation.
Ingestion: May cause gastrointestinal tract irritation.
Chronic Potential Health Effects:
Skin: Repeated or prolonged exposure may cause dermatitis, an allergic skin reaction.
The toxicological properties of this substance have not been fully investigated.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

PIPES, monosod	Page Number: 5			
Section 14. Transport Information				
DOT Classification	Not a DOT controlled material (United States).			
Identification	Not applicable.			
Special Provisions for Transport	Not applicable.			
DOT (Pictograms)				
Section 15. Other	Regulatory Information and Pictograms			
Federal and State Regulations	TSCA 8(b) inventory: PIPES, monosodium salt			
California Proposition 65				

Other Classifications WH DSC HMIS (U.S.A.) He Fin Re	IECS: This produ IMIS (Canada) CL (EEC) Patth Hazard re Hazard Pactivity Protection	Not contr	European Inventory of Existing rolled under WHMIS (Canada). rritating to eyes and skin. National Fire Protection Association (U.S.A.)	S2- Keep out S46- If swallo immediately a	of the react wed, seek i nd show th	
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Protective Equipment						
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PIPES, monosodium salt		Page Number: 6
	Gloves.	
	Lab coat.	
	Dust respirator. Be sure to use an approved/certified respirator or equivalent.	
	Splash goggles.	

Section 16. Other Information				
MSDS Code	P3939			
References	Not available.			
Other Special Considerations	Not available.			
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/13/2006.		
CALL (310) 516-80	000			

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.