



Material Safety Data Sheet

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

Section 1. Chemi	ical Product and Company Identification		Page Number: 1	
Common Name/ Trade Name Sodium hexametaphosphate		Catalog Number(s).	S1336, S2603, SO169	
		CAS#	68915-31-1 or 10124-56-8	
Manufacturer	Ifacturer SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET		TR4950250 [CAS no. 68915-31-1]; OY3675000 [CAS no. 10124-56-8]	
	GARDENA, CA 90240		TSCA 8(b) inventory: Sodium hexametaphosphate	
Commercial Name(s)	Calgon, HMP, Medi-Calgon, Polyphos; SHMP	CI#	Not available.	
Synonym	Sodium Polyphosphates; Glassy; Sodium Polymetaphospha Sodium phosphate glass; Polyphosphoric Acids, sodium sa Hexametaphosphate, sodium salt	ate; Its; <u>IN CASE OF I</u> <u>CHEMTREC</u>	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300	
Chemical Name	Metaphosphoric Acid, hexasodium salt			
Chemical Family	Not available.	CALL (310) 51	CALL (310) 516-8000	
Chemical Formula	(NaPO3)n or (NaPO3)*6 or O18-P6.6Na			
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) Sodium hexametaphosphate	1) Sodium hexametaphosphate 10124-56-8 or 68915-31-1					100	
Toxicological Data on Ingredients	Sodium hexametaphosphate: On Ingredients ORAL (LD50): Acute: 6200 mg/kg [Rat]. 4320 mg/kg [Mouse]. 3053 mg/kg [Rat].						
Section 3. Hazards lo	lentification						
Potential Acute Health Effects	Stightly hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of ingestion, of inhalation.						
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.						

Sodium hexametaphosphate

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	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.					
Serious Skin Contact	Not available.					
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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.					
Serious Ingestion	Not available.					

Section 5. Fire and E	xplosion Data
Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
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	Not applicable.
Special Remarks on Fire Hazards	When heated to decomposition it emits highly toxic fumes of ohosphoxides and Na2O. Behavior in a fire: It may melt with loss of steam.
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

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Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

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

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Physical state and appearance	Solid. (Crystals solid.)	Odor	Odorless.
Molecular Weight	(101.96)*6 or 611.52 g/mole	Taste	Not available.
pH (1% soln/water)	6 - 7.7	Color	White.
Boiling Point	1500°C (2732°F)		
Melting Point	550°C (1022°F) - 628 C.		
Critical Temperature	Not available.		
Specific Gravity	Specific gravity: 1.79 (Water = 1) Density: 1.25		
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	Soluble in cold water, hot water. Soluble in water, but it dissolves slowly. Depolymerizes in aqueous solutions to form sodiur Insoluble in organic solvents.	n trimetapł	nosphate and sodium orthophosphates.

Sodium hexametaphosphate

Section 10. Stability and Reactivity Data					
Stability	The product is stable.				
Instability Temperature	Not available.				
Conditions of Instability	Incompatible materials				
Incompatibility with various substances	Reactive with oxidizing agents.				
Corrosivity	Slightly corrosive in presence of steel.				
Special Remarks on Reactivity	Hygroscopic; keep container tightly closed.				
Special Remarks on Corrosivity	Not available.				
Polymerization	Will not occur.				

Section 11. Toxicolo	ogical Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 3053 mg/kg [Rat].
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant, sensitizer), 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	Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. Inhalation: May cause respiratory tract irritation. Symptoms may include coughing and shortness of breath. Ingestion: Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. However, such effects have occurred. May cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. May affect behavior/central nervous system/peripherial nervous system (somnolence, convulsions, lethargy, flaccid paralysis), urinary system (kidneys- renal failure, acute tubular necrosis). It may also cause heart disturbances (fall in blood pressure, slow pulse) and blood chemistry effects (reduction of serum level of calcium). The toxicity of phosphates is because of their ability to sequester calcium. Systemic metabolic acidosis may result as this material is believed to be hydrolyzed to ortho phosphates when ingested (before absorption). Tetany may also occur as a result of reduction in serum level of ionic calcium.

Section 12. Ecological Information

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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.

Sodium hexameta	phosphate					Page Number: 5
Section 13. Disposal Considerations						
Waste Disposal	Waste must be di control regulations	sposed (3.	of in accordance with fed	eral, sta	te and local	environmental
Section 14. Transpo	ort Information					
DOT Classification	Not a DOT controlled	material (L	Inited States).			
Identification	Not applicable.					
Special Provisions for Transport	Not applicable.					
DOT (Pictograms)						
Section 15. Other R	Regulatory Information	tion and	Pictograms			
Federal and State Regulations	Pennsylvania RTK: S Massachusetts RTK: New Jersey: Sodium TSCA 8(b) inventory:	odium hex Sodium he hexametap Sodium he	ametaphosphate (CAS no. 1012 exametaphosphate (CAS no. 10 phosphate (CAS no. 10124-56-8 exametaphosphate	24-56-8) 124-56-8) 3)		
California Proposition 65 Warnings	California prop. 65: to cause cancer whit California prop. 65: to cause birth defect	This produ ch would r This produ s which w	ct contains the following ingrea equire a warning under the stat ct contains the following ingrea ould require a warning under th	dients for ute: No pr dients for e statute:	which the State oducts were fo which the State No products we	e of California has found und. e of California has found ere found.
Other Regulations	EINECS: This produc	ct is on the	European Inventory of Existing	Commerc	ial Chemical Sul	ostances.
Other Classifications	WHMIS (Canada)	Not cont	rolled under WHMIS (Canada).			
	DSCL (EEC)	R36- Irrit	ating to eyes.	S26- In c immediat medical a	case of contact v tely with plenty o advice.	with eyes, rinse of water and seek
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity	1 0 0	National Fire Protection Association (U.S.A.)	Health	100	Flammability Reactivity
WHMIS (Canada) (Pictograms)	Personal Protection	(E)				
DSCL (Europe) (Pictograms)	×					

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Sodium hexametap	hosphate		Page Number: 6
TDG (Canada) (Pictograms)	\bigotimes		
ADR (Europe) (Pictograms)	\bigotimes		
Protective Equipment		Gloves.	
		Lab coat.	
		Dust respirator. Be sure to use an approved/certified respirator or equivalent.	
	$\nabla \sigma$	Safety glasses.	

Section 16. Other Information			
MSDS Code	S4070		
References	-Hawley, G.G The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.		
Other Special Considerations	Major Uses: In photographic developing process; dairy substitute in milk-based pudding; retarder in alginate impression materials; drilling mud thinner in petroleum drilling fluids; softening water without precipitate formation		
Validated by Sonia Owen on 11/28/2006.		Verified by Sonia Owen. Printed 11/28/2006.	
CALL (310) 516-800	00		

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.