



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
400	Health Hazard 4 Fire Hazard 0	
	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Sodium selenate decahydrate		Catalog Number(s).	S1430
			CAS#	10102-23-5
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	VS6650000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Sodium selenate decahydrate
Commercial Name(s)	Not available.		CI#	Not applicable.
Synonym	Not available.		- IN CASE OF EMERGENCY	
Chemical Name	Not available.			(24hr) 800-424-9300
Chemical Family	Salt.		CALL (310) 5	16-8000
Chemical Formula	Na2SeO4.10H2O			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients					
			Exposure Limits		
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Sodium selenate decahydrate	10102-23-5				100
<u> </u>	enate decahydrate:	[Rat]. 2 mg/kg [Rab			100

Section 3. Hazards Identification

Potential Acute Health Effects Extremely hazardous in case of ingestion. Very hazardous in case of eye contact (irritant), of inhalation. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health

Effects

Extremely hazardous in case of ingestion.

Very hazardous in case of eye contact (irritant), of inhalation.

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS**: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

The substance is toxic to kidneys, liver.

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human

organs.

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Section 4. First A	Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.		
Skin Contact	No known effect on skin contact, rinse with water for a few minutes.		
Serious Skin Contact	Not available.		
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.		
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.		
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.		
Serious Ingestion	Not available.		

Section 5. Fire and Explosion 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	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.	
Large Spill	Use a shovel to put the material into a convenient waste disposal container.	

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Section 7. Handling and Storage		
Precautions	Keep locked up Do not ingest. Do not breathe dust. Avoid contact with eyes In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids.	
Storage	Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.	

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.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	Not available.	

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid.	Odor	Odorless.
Molecular Weight	369.09 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Colorless.
Boiling Point	Not available.		
Melting Point	Decomposes.		
Critical Temperature	Not available.		
Specific Gravity	3.098 (Water = 1)		
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.		

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Not available.	
Incompatibility with various substances	Reactive with acids.	
Corrosivity	Non-corrosive in presence of glass.	

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Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information		
Routes of Entry	Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 2 mg/kg [Rabbit].	
Chronic Effects on Humans	The substance is toxic to kidneys, liver.	
Other Toxic Effects on Humans	Extremely hazardous in case of ingestion. Very hazardous in case 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	Not available.	

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 products of degradation are more toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information		
DOT Classification	CLASS 6.1: Poisonous material.	
Identification	: Selenate (Sodium selenate) : UN2630 PG: I	
Special Provisions for Transport	Not available.	
DOT (Pictograms)	POISON	

Sodium selenate decahydrate Page Number: 5 Section 15. Other Regulatory Information and Pictograms TSCA 8(b) inventory: Sodium selenate decahydrate Federal and State SARA 302/304/311/312 extremely hazardous substances: Sodium selenate decahydrate Regulations California Proposition 65 Warnings OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). **Other Regulations Other Classifications** WHMIS (Canada) CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC). DSCL (EEC) R28- Very toxic if swallowed. R41- Risk of serious damage to eyes. **Health Hazard** HMIS (U.S.A.) 4 **National Fire Protection** Flammability **Association (U.S.A.)** Fire Hazard 0 Health Reactivity Reactivity 0 Specific hazard **Personal Protection** WHMIS (Canada) (Pictograms) DSCL (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms) **Protective Equipment** Not applicable. Lab coat. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

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Section 16. Other Information		
MSDS Code	S4435	
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) 516-8000

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.