



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
10	Health Hazard Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1	
Common Name/ Trade Name	Yeast, Selenium		Catalog Number(s).	Y1050	
			CAS#	Mixture.	
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	Not applicable.	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Selenium; Yeast extract	
Commercial Name(s)	Not available.		CI#	Not available.	
Synonym	Not available.		DI CASE OF	EMED CENION	
Chemical Name	Not applicable.			EMERGENCY C (24hr) 800-424-9300	
Chemical Family	Not available.		CALL (310) 5	16-8000	
Chemical Formula	Not applicable.				
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248				

			Exposure Limits		
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
Selenium Yeast extract	7782-49-2 8013-01-2	0.2			0.2 99.8

Section 3. Hazards Identification			
Potential Acute Health Effects	Slightly 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 (irritant), of eye contact (irritant), of ingestion, of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.		

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Section 4. First A	id Measures
Eye Contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact	Not available.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation	Not available.
Ingestion	Do not induce vomiting. 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	d Explosion Data

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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	Not available.		
Fire Hazards in Presence of Various Substances	Not available.		
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	Material in powder form, capable of creating a dust explosion. (Selenium)		
Special Remarks on Explosion Hazards	Not available.		

Section 6. Acc	cidental 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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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.		
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.		

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	Safety glasses. 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	Selenium TWA: 0.2 (mg/m³)
	Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical state and appearance	Solid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	Not available.		
Melting Point	Decomposes.		
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	Easily soluble in cold water.		

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Section 10. Stability and Reactivity Data				
Stability	The product is stable.			
Instability Temperature	Not available.			
Conditions of Instability	Not available.			
Incompatibility with various substances	Not available.			
Corrosivity	Non-corrosive in presence of glass.			
Special Remarks on Reactivity	Not available.			
Special Remarks on Corrosivity	Not available.			
Polymerization	No.			

Section 11. Toxicological Information			
Routes of Entry	Not available.		
Toxicity to Animals	LD50: Not available. LC50: Not available.		
Chronic Effects on Humans	Not available.		
Other Toxic Effects on Humans	Slightly 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	Passes through the placental barrier in animal. Excreted in maternal milk in human. (Selenium)		
Special Remarks on other Toxic Effects on Humans	Nuisance dust. (Yeast extract)		

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.	

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Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information

DOT ClassificationNot 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 Pennsylvania RTK: Selenium

Massachusetts RTK: Selenium

TSCA 8(b) inventory: Selenium; Yeast extract

SARA 313 toxic chemical notification and release reporting: Selenium

CERCLA: Hazardous substances.: Selenium;

Proposition 65 Warnings

Other Regulations Not available. or of its ingredients

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) This product is not classified according

to the EU regulations.

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	(E)

National Fire Protection Association (U.S.A.)

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



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ADR (Europe) (Pictograms)



Protective Equipment



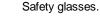
Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



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Section 16. Other Information		
MSDS Code	Y3012	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/14/2006.
CALL (310) 516-80	00	

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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.