



Material Safety Data Sheet

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

Section 1. Chem	nical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Gadolinum Oxide	Catalog Number(s).	G1082, G1001
		CAS#	12064-62-9
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	LW4790000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Gadolinum Oxide
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Digadolinium trioxide; Gadolinia; Gadolinium sesquioxide; Gadol Trioxide; Gadolinium (3+) oxide; Gadolinium (III) oxide	IN CASE OF	EMERGENCY
Chemical Name	Gadolinium Oxide	CHEMTREC	(24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	Gd2O3		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition	and Information	n on Ingredients	;			
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Gadolinum Oxide		12064-62-9				100
Toxicological Data on Ingredients	Not applicable.					
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Slightly hazardous in	case of skin contact	(irritant), of eye cont	act (irritant), of ing	estion, of inhalatio	on.
Potential Chronic Health Effects	CARCINOGENIC EF MUTAGENIC EFFEC TERATOGENIC EFF DEVELOPMENTAL Repeated or prolonge	CTS: Not available. ECTS: Not available. TOXICITY: Not availa	ble.	dical condition.		

Gadolinum Oxide

Section 4. First Aid Measures

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for al least 15 minutes. Get medical attention if irritation occurs.
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Not available.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Not available.
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.
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

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.

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Section 7. Handling a	and Storage	
Precautions	Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.	
Storage	Keep container tightly closed. Keep container in a	cool, well-ventilated area.
Section 8. Exposure	Controls/Personal Protection	
Engineering Controls		n, or other engineering controls to keep airborne levels below generate dust, fume or mist, use ventilation to keep exposure to
Personal Protection		t respirator is recommended if ventilation is not adequate and if Be sure to use an approved/certified respirator or equivalent.
Personal Protection in Case of a Large Spill		Gloves. A self contained breathing apparatus should be used rotective clothing might not be sufficient; consult a specialist
Exposure Limits	Not available.	
Section 9. Physical a	nd Chemical Properties	
Physical state and appearance	Solid. (Powdered solid.)	Odor Odorless.
Molecular Weight	362.5 g/mole	Taste Not available.
pH (1% soln/water)	Not applicable.	Color White. Off-white.
Boiling Point	Not available.	
Melting Point	2330°C (4226°F)	
Critical Temperature	Not available.	
Specific Gravity	7.6 (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	Not available.	
Solubility	Insoluble in cold water, hot 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	Not available.	
Corrosivity	Non-corrosive in presence of glass.	

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Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.
Section 11. Toxicolo	gical Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): >5000 mg/kg [Rat].
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	Not available.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: Dust may cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: Low hazard. Chronic Potential Health Effects: Inhalation: Prolonged or repeated inhalation may affect respiration (pneumoconiosis).
Section 12. Ecologic	cal 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 marise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the	Not available.

Waste Disposal

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

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.

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Gadolinum Oxide

DOT (Pictograms)



Section 15. Other Re	egulatory Information and Pictograms
Federal and State Regulations	TSCA 8(b) inventory: Gadolinum Oxide
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.
Other Regulations	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS no. 235-060-9). Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.
Other Classifications	WHMIS (Canada) Not controlled under WHMIS (Canada). DSCL (EEC) This product is not classified according to the EU regulations. Not applicable.
HMIS (U.S.A.)	Health Hazard 1 National Fire Protection Flammability Fire Hazard 0 Association (U.S.A.) Health Flammability Reactivity 0 Personal Protection Flammability Personal Protection E Specific hazard
WHMIS (Canada) (Pictograms)	
DSCL (Europe) (Pictograms)	
TDG (Canada) (Pictograms)	
ADR (Europe) (Pictograms)	
Protective Equipment	Gloves.
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		Lab coat.	
		Dust respirator. Be sure to use an approved/certified respirator or equivalent.	
	$\nabla \sigma$	Safety glasses.	

MSDS Code	G2991	
References	Not available.	
Other Special Considerations	Uses: Gadolinium oxide is used as a raw materials for various fluorescent compounds, absorption material in atomic reactions, magnetic bubble material, screen sensitivity increasing material, as well as many other applications in the chemical, glass, and electronic industries.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen.
		Printed 9/12/2006.

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.