



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	N-o-Nitrophenylsulfenylglycine Di(cyclohexyl)ammonium salt	Catalog Number(s).	N3013	
	Di(Cyclonexyr)aminomum Sait	CAS#	7675-47-0	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: No products were found.	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	N-o-nitrophenylsulfenyl-glycine dcha; N-o-NPS-Glycine dicyclohexylammonium salt; N-o-Nitrophenylsulfenyl-glycine dicyclonexylammonium salt	e, IN CASE OF	EMERGENCY (24hr) 800-424-9300	
Chemical Name	N-o-Nitrophenylsulfenylglycine Di(cyclohexyl)ammonium Salt			
Chemical Family	cal Family Not available.		16-8000	
Chemical Formula	C8-H8-N2-O4-S.C12-H23-N			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients				
		Exposure Limits		
CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
'675-47-0				100
	CAS#	CAS# TWA (mg/m³)	CAS # TWA (mg/m³) STEL (mg/m³)	CAS # TWA (mg/m³) STEL (mg/m³) CEIL (mg/m³)

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	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.	

N-o-Nitrophenylsulfenylglycine
Di(cvclohexvl)ammonium 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. Get medical attention if irritation occurs.	
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.	
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. 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.	

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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).	
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, 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.	

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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 tightly closed. Keep container in a cool, well-ventilated area. Do not store above 0°C (32°F). Preferably store in freezer at -20 C.

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	Not available.	

Section 9. Physical and Chemical Properties				
Physical state and appearance	Solid. (Powdered solid. Crystals solid	d.)	Odor	Not available.
Molecular Weight	409.54 g/mole		Taste	Not available.
pH (1% soln/water)	Not available.		Color	Yellow.
Boiling Point	Not available.			
Melting Point	191°C (375.8°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, methanol.			
Solubility	Soluble in methanol.			

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat, incompatible materials	
Incompatibility with various substances	Not available.	
Corrosivity	Not available.	

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N-o-Nitrophenyl Di(cyclohexyl)ar		Page Number: 4
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological 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	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 skin irritation. Eyes: Dust may cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Breathing small amounts during normal handling is not likely to be harmful. Ingestion: May cause digestive tract irriation. Swallowing small amount of this materials during normal handling is not likely to be harmful 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.	

N-o-Nitrophenylsulfenylglycine Di(cyclohexyl)ammonium salt

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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 No products were found.

California Duonogition

Proposition 65 Warnings

Warnings

Other Regulations EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications

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

DSCL (EEC) This product is not classified according Not applicable.

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)



ADR (Europe) (Pictograms)



Protective Equipment

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N-o-Nitrophenylsulfenylglycine Di(cyclohexyl)ammonium salt



Gloves.



Lab coat.



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

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Safety glasses.

Section 16. Other Information MSDS Code N3031 References Not available. Other Special Considerations Validated by Sonia Owen on 8/11/2006. Verified by Sonia Owen. Printed 9/12/2006.

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.