



Material Safety Data Sheet

NFPA 	HMS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00FFFF;">Hazard</td> <td style="background-color: #00FFFF;">2</td> </tr> <tr> <td style="background-color: #FFFF00;">Env. Hazard</td> <td style="background-color: #FFFF00;">1</td> </tr> <tr> <td style="background-color: #FF0000;">Reactivity</td> <td style="background-color: #FF0000;">1</td> </tr> </table>	Hazard	2	Env. Hazard	1	Reactivity	1	Personal Protective Equipment  <p style="text-align: center;">See Section 15.</p>
Hazard	2							
Env. Hazard	1							
Reactivity	1							

Section 1. Chemical Product and Company Identification		Page Number: 1	
Common Name/ Trade Name	Diethylene glycol	Catalog Number(s)	D1027, XX222
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	CAS#	111-46-6
		RTECS	ED5950000
Commercial Name(s)	Not available.	TSCA	TSCA 8(b) inventory: Diethylene glycol
		CIB	Not applicable.
Synonym	2,2'-Dihydroxyethyl ether 2,2'-Oxybisethanol 2,2'-Oxyethanol 2,2'-Oxyethanol 3-Oxa-1,5-dipol beta,beta'-Dihydroxydiethyl ether Bis(2-hydroxyethyl) ether Brecolex nrg Deactivator E DEG Dical Diglycol Dihydroxydiethyl ether Dissolvent APV Ethanol, 2,2'-oxydi- Ethylene glycol	IN CASE OF EMERGENCY CHEMTRAC Call the 800-424-9300	
Chemical Name	Ethanol, 2,2'-oxydi-		
Chemical Family	Aliphatic ether. (Solvent.)	CALL (310) 516-8000	
Chemical Formula	C4H10O3		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2. Composition and Information on Ingredients				
Name	CAS #	Exposure Limits		
		TWA (mg/m ³)	STEL (mg/m ³)	CEB. (mg/m ³)
1) Diethylene glycol	111-46-6	10		100
Toxicological Data on Ingredients	Diethylene glycol: ORAL (LD50): Acute: 12565 mg/kg [Rat], 23700 mg/kg [Mouse], 8000 mg/kg [Guinea pig] DERMAL (LD50): Acute: 11890 mg/kg [Rabbit].			

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NFPA	HMIS	Personal Protective Equipment						
	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="background-color: #00FFFF; padding: 2px;">Health Hazard</td> <td style="text-align: center; padding: 2px;">1</td> </tr> <tr> <td style="background-color: #FFCCCC; padding: 2px;">Fire Hazard</td> <td style="text-align: center; padding: 2px;">1</td> </tr> <tr> <td style="background-color: #FFFF00; padding: 2px;">Reactivity</td> <td style="text-align: center; padding: 2px;">0</td> </tr> </table>	Health Hazard	1	Fire Hazard	1	Reactivity	0	<div style="display: flex; justify-content: space-around; align-items: center;">     </div> <p style="margin-top: 10px;">See Section 15.</p>
Health Hazard	1							
Fire Hazard	1							
Reactivity	0							

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.
Swallow Mite 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.
Swallow 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.
Swallow Ingestion	Not available.

Section 5, Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Point	CLOSED CUP: Higher than 99.2°C (200°F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...).
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.
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	As with most organic solids, fire is possible at elevated temperatures. Material in powder form, capable of creating a dust explosion.
Special Remarks on Explosion Hazards	Excess dust generation may create explosion hazard.

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

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 ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. 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. Do not store above 22°C (73°F).

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 (SEPCO) handling this product.
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Powdered solid.)	Color	Amino like.
Molecular Weight	203.20 g/mole	Taste	Not available.
pH (1% soln/water)	Not applicable	Color	White.
Boiling Point	Not available.		
Melting Point	160°C (365°F) - 180°C.		
Critical Temperature	Not available.		
Specific Gravity	0.5 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Toxicity (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	Excess heat, excess dust generation, incompatible materials.
Incompatibility with various substances	Not available.
Corrosivity	Not available.
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	Acute oral toxicity (LD50): 210 mg/kg (Guinea pig).
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: May cause eye irritation. Inhalation: May cause respiratory tract and mucous membrane irritation. Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation with nausea and vomiting. May affect behavior/central nervous system (tremor, excitement), metabolism (metabolic acidosis), endocrine system (gout/renal - hyperglycemia), and urinary system. Chronic Potential Health Effects: no information found.

Section 12. Ecological Information

Ecotoxicity	Not available.
BCoD 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 less toxic than the product itself.
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.
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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 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. 66: 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. 204-795-7). Canada: Listed on Canadian Domestic Substance List (DSL). China: Not listed on National Inventory. Japan: Not listed on National Inventory (ENCS). Korea: Listed on National Inventory (KICS). Philippines: Not listed on National Inventory (PICCS). Australia: Listed on ACS.	
Other Classifications	WHMIS (Canada)	Not controlled under WHMIS (Canada).
	DSL (EHC)	R22- Harmful if swallowed. S40- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	E

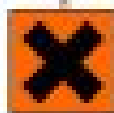
National Fire Protection Association (U.S.A.)

Health	1	Flammability	1
Reactivity	0	Specific Hazard	

WHMIS (Canada)
(Pictogram)



DSL (Europe)
(Pictogram)



TDG (Canada)
(Pictograms)



ADR (Europe)
(Pictograms)



Protective Equipment	
	Gloves.
	Lab coat.
	Dust respirator. Be sure to use an approved/certified respirator or equivalent.
	Safety glasses.

Section 16. Other Information	
MSDS Code	00028
References	Not available.
Other Special Considerations	Not available.
Validated by Soda Green on 5/8/2007.	Verified by Soda Green. Printed 8/13/2007.
CALL (800) 316-8888	

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.

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