



GARDENA, CA  
NEW BRUNSWICK, NJ

# Material Safety Data Sheet

<b>NFPA</b>  	<b>HMS</b>  <table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health Hazard	2	Fire Hazard	1	Reactivity	0	<b>Personal Protective Equipment</b>    See Section 15.
Health Hazard	2							
Fire Hazard	1							
Reactivity	0							

<b>Section 1. Chemical Product and Company Identification</b>		Page Number: 1
<b>Common Name/ Trade Name</b> Diazepam	<b>Catalog Number(s)</b> D2029	<b>IN CASE OF EMERGENCY</b> <b>CHEMIREC (24hr) 800-424-9300</b>  CALL (310) 516-8000
	<b>CAS#</b> 439-14-5	
<b>Manufacturer</b> SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	<b>RTECS</b> DF1575000	
<b>Commercial Name(s)</b> Valium	<b>TSCA</b> TSCA 8(b) inventory: Diazepam	
<b>Synonym</b> Not available.	<b>CI#</b> Not available.	
<b>Chemical Name</b> 2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-dihydro-1-methyl-5-phenyl-		
<b>Chemical Formula</b> C <sub>16</sub> H <sub>13</sub> ClN <sub>2</sub> O		
<b>Supplier</b> SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

<b>Section 2. Composition and Information on Ingredients</b>					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	
1) Diazepam	439-14-5				100
<b>Toxicological Data on Ingredients</b>					
<b>Diazepam:</b> ORAL (LD50): Acute: 249 mg/kg [Rat], 48 mg/kg [Mouse], 328 mg/kg [Rabbit]. DERMAL (LD50): Acute: 800 mg/kg [Mouse].					

<b>Section 3. Hazards Identification</b>	
<b>Potential Acute Health Effects</b>	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.
<b>Potential Chronic Health Effects</b>	Slightly hazardous in case of skin contact (sensitizer), of inhalation (lung sensitizer). <b>CARCINOGENIC EFFECTS:</b> 3 (Not classifiable for human.) by IARC. <b>MUTAGENIC EFFECTS:</b> Mutagenic for bacteria and/or yeast. <b>TERATOGENIC EFFECTS:</b> Classified POSSIBLE for human. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

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**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. Cold water may be used. WARM water MUST be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
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.

**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, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...), halogenated compounds.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence 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.

**Section 7. Handling and Storage**

Precautions	Keep locked up.. 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. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.
Storage	Light Sensitive. Store in light-resistant containers. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77° 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	Splash goggles. 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. (crystalline powder.)	Odor	Odorless.
Molecular Weight	284.7 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Off-white. Yellow.
Boiling Point	Not available.		
Melting Point	132°C (269.6F)		
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.	The product is more soluble in oil; log(oil/water) = 3		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Very slightly soluble in cold water. Insoluble in diethyl ether. Solubility in Chloroform is 1 g/ 2 ml chloroform. Sparingly soluble in propylene glycol. Solubility in ether is 1mg/39 ml ether. Solubility in water is 3 mg/1 ml water at 25 C. Solubility in alcohol is 62.5 mg/ml alcohol at 25 C		

**Section 10. Stability and Reactivity Data**

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat
Incompatibility with various substances	Reactive with oxidizing agents, alkalis
Corrosivity	Not available.
Special Remarks on Reactivity	Sensitive to light. Incompatible with mineral acid.
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): 48 mg/kg [Mouse]. Acute dermal toxicity (LD50): 800 mg/kg [Mouse].
Chronic Effects on Humans	<b>CARCINOGENIC EFFECTS:</b> 3 (Not classifiable for human.) by IARC. <b>MUTAGENIC EFFECTS:</b> Mutagenic for bacteria and/or yeast. <b>TERATOGENIC EFFECTS:</b> Classified POSSIBLE for human. May cause damage to the following organs: central nervous system (CNS).
Other Toxic Effects on Humans	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	It crosses the placenta readily. May cause adverse reproductive effects and birth defects. It has been reported to increase the risk of birth defects when used during the first trimester of pregnancy. Chronic use or therapeutic use late in pregnancy may also adversely affect the newborn. May cause cancer based on animal data. No human data found.
Special Remarks on other Toxic Effects on Humans	<b>Acute Potential Health Effects</b> Skin and Eyes: May cause skin and eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: Harmful if swallowed. May cause gastrointestinal tract irritation. May affect behavior/central nervous system. Symptoms may include drowsiness, dizziness, slurred speech, muscle contraction, clumsiness, anxiety, confusion, weakness, mental depression, muscle spasm, false sense of well-being, decreased reflexes, coma, seizures, shakiness, staggering, delirium, lethargy, hallucinations, excitement and irritability. It may also affect the cardiovascular system (fast pounding, irregular heartbeat), hypotension, hypertension, dysarthria, cardiac arrest, the urinary system, respiratory system (respiratory depression) and may cause changes in vision (diplopia, visual field changes). <b>Chronic Potential Health Effects</b> Skin: Prolonged or repeated skin contact may cause allergic reaction. Ingestion: Prolonged or repeated ingestion may affect behavior/central nervous system (with symptoms similar to acute exposure), endocrine system, brain, liver (fatty liver degeneration), urinary system, metabolism, blood (normocytic anemia) and may cause allergic reaction, and psychological or physical dependence. Inhalation: Prolonged or repeated inhalation may cause allergic reaction.

**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 as toxic as 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	CLASS 6.1: Poisonous material.
Identification	UNNA: 2811 : Toxic solid, organic, n.o.s. (Diazepam) PG: III
Special Provisions for Transport	Not available.
DOT (Pictograms)	

**Section 15. Other Regulatory Information and Pictograms**

Federal and State Regulations	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Diazepam 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: Diazepam Massachusetts RTK: Diazepam New Jersey: Diazepam TSCA 8(b) inventory: Diazepam	
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: Diazepam	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 207-122-5). 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 (KECI). Philippines: Not listed on National Inventory (PICCS). Australia: Listed on AICS.	
Other Classifications	WHMIS (Canada)	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
	DSCL (EEC)	R22- Harmful if swallowed. S2- Keep out of the reach of children. R63- Possible risk of harm to the unborn child. S46- If swallowed, seek medical advice immediately and show this container or label.

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HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	E

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

Health



Flammability

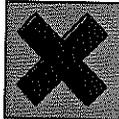
Reactivity

Specific hazard

WHMIS (Canada)  
(Pictograms)



DSCL (Europe)  
(Pictograms)



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 D4589

References Not available.

Other Special Considerations Not available.

Validated by Sonia Owen on 4/6/2009.

Verified by Sonia Owen.  
Printed 4/6/2009.

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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, Spectram Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*

