



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment	
	Health Hazard     1       Fire Hazard     1	∽∽ ∰ 🏈 🗯	
	Reactivity 0	See Section 15.	

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	4-Piperidone Hydrochloride Monohydrate		P2581
		CAS#	40064-34-4
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA 8(b) inventory: No products were found. Not liste on TSCA 8(b) inventory.
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	4,4-Piperidinediol Hydrochloride		EMEDOENON
Chemical Name	ne Not available.		EMERGENCY C (24hr) 800-424-9300
Chemical Family	Family Not available.		16-8000
Chemical Formula	C5-H11-N-O2.HCI.H2O		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name	Name C.		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) {4-}Piperidone Hydrochloride Monohydrate 40064-34-4					100	
Toxicological Data on Ingredients	Not applicable.					
Section 3. Hazards Identification						
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.		on.			
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.					

4-Piperidone Hydrochloride Monohydrate

Page Number: 2

## 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. 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. Cold water may be used.	
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.	

Section 5. Fire and E	xplosion 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), halogenated compounds.
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
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 away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.

Storage

### Section 8. Exposure Controls/Personal Protection

Engineering ControlsUse process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below<br/>recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to<br/>airborne contaminants below the exposure limit.Personal ProtectionSafety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.Personal Protection in Case of<br/>a Large SpillSplash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used<br/>to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist<br/>BEFORE handling this product.

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Exposure Limits

#### Not available.

#### Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Crystals solid.)	Od	lor	Not available.
	152.64 a/mole	Ta	iste	Not available.
Molecular Weight	153.61 g/mole	Co	olor	Beige. Tan.
pH (1% soln/water)	Not available.			
Boiling Point	Not available.			
Melting Point	97°C (206.6°F) - 99 C			
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	Soluble in cold water.			

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	Reactive with oxidizing agents.	
Corrosivity	Not available.	

Continued on Next Page

	ochloride Monohydrate Page Number: 4
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.
Section 11. Toxicol	ogical 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: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: Expected to be a low hazard.
Section 12. Ecologi	ical 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 ma arise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.
Section 13. Dispose	al Considerations
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Section 14. Transpo	ort Information
	Not a DOT controlled material (United States).
DOT Classification	
DOT Classification Identification	Not applicable.

Continued on Next Page

# 4-Piperidone Hydrochloride Monohydrate

## DOT (Pictograms)



Section 15. Other R	egulatory 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. 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	<ul> <li>EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 254-779-9).</li> <li>Canada: Not listed on Canadian Domestic Substance List (DSL) or on Canadian Non-Domestic Substances list (NDSL)</li> <li>China: Not isted on National Inventory.</li> <li>Japan: Not listed on National Inventory (ENCS).</li> <li>Korea: Not listed on National Inventory (KECI).</li> <li>Philippines: Not listed on National Inventory (PICCS).</li> <li>Australia: Not listed on AICS.</li> </ul>			
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       Fire Hazard     1       Reactivity     0       Personal Protection     E			
WHMIS (Canada) (Pictograms)				
DSCL (Europe) (Pictograms)				
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				
Protective Equipment	Gloves.			
Continued on Nex	t Page			

Page Number: 6

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

Safety glasses.

Lab coat.

Section 16. Other Information			
MSDS Code	5005P		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 11/30/2006.		Verified by Sonia Owen. Printed 12/1/2006.	
CALL (310) 516-80	00		

#### 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.