



# **Material Safety Data Sheet**

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

Section 1. Chem	Page Number: 1			
Common Name/ Trade Name	Orotic Acid, anhydrous	Catalog Number(s).	YY685, O2142	
		CAS#	65-86-1	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	RM3180000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Orotic Acid, anhydrous	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	1,2,3,6-Tetrahydro-2,6-dioxo-4-pyrimidinecarboxylic Acid;		IN CASE OF EMERCENCY	
	6-Uracilcarboxylic Acid	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300		
Chemical Name	Orotic Acid, anhydrous			
Chemical Family	Not available.	CALL (310) 5	16-8000	
Chemical Formula	C5-H4-N2-O4			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Orotic Acid, anhydrous	rotic Acid, anhydrous 65-86-1 100			100		
Toxicological Data on Ingredients	Orotic Acid, anhydrous: ORAL (LD50): Acute: 2000 mg/kg [Mouse].					
Section 3. Hazards lo	lentification					
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: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.					

# Orotic Acid, anhydrous

# Section 4. First Aid Measures

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.
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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
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).
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

Section 6. Accidental Aclease 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

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Preca	nti	ons
I I CCU		

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. 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	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. (crystalline powder.)	Odor	Not available.
Molecular Weight	156.1 g/mole	Taste	Not available.
		Color	White.
pH (1% soln/water)	Not available.		
Boiling Point	Not available.		
Melting Point	345.5°C (653.9°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.		
<b>Dispersion Properties</b>	Not available.		
Solubility	Not available.		

# 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. Corrosivity Not available.

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Special Remarks on Reactivity	No information at this time			
Special Remarks on Corrosivity	Not available.			
Polymerization	Will not occur.			
Section 11. Toxicolo	ogical Information			
Routes of Entry	Inhalation. Ingestion.			
Toxicity to Animals	Acute oral toxicity (LD50): 2000 mg/kg [Mouse].			
Chronic Effects on Humans	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.			
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	May affect genetic material			
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: May cause gastrointestinal tract irritation with nausea, and vomiting. The toxicological properties of this substance have not been fully investigated.			
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 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. Disposa	I Considerations			
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.			
Section 14. Transpo	ort Information			
DOT Classification	Not a DOT controlled material (United States).			
Identification	Not applicable.			
Special Provisions for Transport	Not applicable.			

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DOT (Pictograms)



Federal and State Regulations	Massachusetts RTK: Orotic Acid, anhydrous New Jersey: Orotic Acid, anhydrous TSCA 8(b) inventory: Orotic Acid, anhydrous					
California Proposition 65 Warnings						
Other Regulations	EINECS: This produc	ct is on the	European Inventory of Existing	Commerci	al Chemical Su	ibstances.
Other Classifications	WHMIS (Canada)	Not cont	trolled under WHMIS (Canada).			
	DSCL (EEC)	R40- Pos effects.	ssible risks of irreversible		out of the read Wear suitable p	ch of children. protective clothing and
HMIS (U.S.A.)	Health Hazard         Fire Hazard         Reactivity         Personal Protection	1 1 0 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	Glove	es.				
	Labo	coat.				
Continued on Next	- Paga					

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		Dust respirator. Be sure to use an approved/certified respirator or equivalent.	
	0.1-0000-003	Safety glasses.	
	Other Information		
Section 16. C			
	O2073		
MSDS Code	O2073 Not available.		
MSDS Code References Other Special			
Section 16. C MSDS Code References Other Special Considerations Validated by Sonia	Not available. Not available.	Verified by Sonia Owen.	

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.