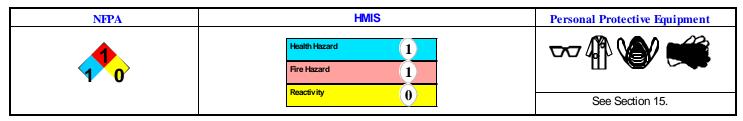




## **Material Safety Data Sheet**



Section 1. Chemic	al Product and Company Identification	1			Pag	e Number: 1
Common Name/ Trade Name			Catalog Number(s).	P2221, P2075	5	
				CAS#	51-52-5	
Manufacturer	Manufacturer SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		RTECS	YR1400000		
			TSCA	TSCA 8(b 6-Propyl-2-thio	) inventory: buracil	
<b>Commercial Name(s)</b>	Not available.	available.		CI#	Not available.	
Synonym	2,3-Dihydro-6-propyl-2-thioxo-4-(1H)-pyrimidinone; 2-Mercapto-4-hydroxy-6-n-propylpyrimidine; 2-Mercapto-6-propyl-4-pyrimidone; 2-Mercapto-6-propylpyrimid-4-one 2-Thio-4-oxo-6-propyl-1,3-pyrimidin-4-one; 4(1H)-Pyrimidinone, 2,3-dihydro-6-propyl-2-thioxo-; 4-Propyl-2-thiouracil; 6-n-Propyl-2-thiouracil; 6-n-Propylthiouracil; 6-Propylthiouracil 6-Thio-4-propyluracil; Procasi; Propacil; Propilthiouracil; Propycil Propyl-thiorist; Propylthiouracil; Propyl-thyracil; Prothiucil; Prothiurone Prothyran; Protiural; Thiuragyl		IN CASE OF I CHEMIREC (	MERGENCY 24hr) 800-424-9.	<u>300</u>	
Chemical Name	Uracil, 6-propyl-2-thio					
Chemical Family	Not available.			CALL (310) 516	6-8000	
Chemical Formula	C7-H10-N2-O-S					
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248					
Section 2. Composi	tion and Information on Ingredients					I
				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) {6-}Propyl-2-thiouracil	51-52-5				100
Toxicological Data on Ingredients6-Propyl-2-thioura ORAL (LD50):	<b>cil</b> : Acute: 1250 mg/kg [Ri	at].			

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Section 3. Hazards Ide	ntification	
Potential Acute Health	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	
Effects		
Potential Chronic Health CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC.		
Effects	MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available.	
	DEVELOPMENTAL TOXICITY: Not available.	
	The substance may be toxic to blood, liver, thyroid. Repeated or prolonged exposure to the substance can produce target organs damage.	
Section 4. First Aid Me	easures	
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 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.	
Serious initiatation		
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 tigh clothing such as a collar, tie, belt or waistband.	
Serious Ingestion	Not available.	
Section 5. Fire and Ex	plosion 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.	
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. When heated to decomposition it emits toxic fumes of nitrogen oxide and sulfur oxide.	
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.	

6-Propyl-2-thiouracil			Page Number: 3	
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 a	nd Storage			
Precautions	Keep away from heat. Keep away from sources of ignition. 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. Keep away from incompatibles such as oxidizing agents, acids, alkalis.			
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.			
Section 8. Exposure C	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. Dust respirator is recommended when ventilation is not adequate and handling of material causes generation of visible dust clouds. 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	d Chemical Properties			
Physical state and appearance	Solid. (Crystalline powder.)	Odor	Odortess.	
Molecular Weight	170.23 g/mole	Taste	Bitter.	
pH (1% soln/water)	Not available.	Color	White.	
Boiling Point	Not available.			
Melting Point	218°C (424.4°F) - 221 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.			
<b>Dispersion Properties</b>	Not available.			
Solubility	Partially soluble in hot water. Very slightly soluble in cold water. Insoluble in diethyl ether.			

## 6-Propyl-2-thiouracil

Section 10. Stability a	nd Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Excess heat, incompatible materials, dust generation		
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis.		
Corrosivity	Not available.		
Special Remarks on Reactivity	Not available.		
Special Remarks on Corrosivity	Not available.		
Polymerization	Will not occur.		
Section 11. Toxicologi	ical Information		
Routes of Entry	Inhalation. Ingestion.		
Toxicity to Animals	Acute oral toxicity (LD50): 1250 mg/kg [Rat].		
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs blood, liver, thyroid.		
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 cause adverse reproductive effects and birth defects (teratogenic). May affect genetic material (mutagenic). May cause cancer. Human: passes through the placenta, excreted in maternal milk It is capable of cause fetal hypothyroidism and goiter.		
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: It can cause headache, nausea, abdominal discomfort, dizziness, drowsiness, loss of taste and it can suppress thyroid function. Effects on the liver (hepatits, jaundice, increase in liver function enzymes), and kidneys (nephritis), blood (agranulocytosis, coumarin-like anticoagulant effect, aplastic anemia, pancytopenia, hemolytic anemia) may occur but are rarer with acute exposure. Chronic Potential Health Effects Ingestion: Chronic exposure to lower doses in the absence of underlying hyperthyroidism would be expected to depress thyroid function and result in hypothyroidism. It can also affect the liver and kidneys. Chronic ingestion can produce immunological reactions including agranulocytosis, milder leukopenias, thrombocytopenia, eosinophilia, pancytopenia, aplastic anemia, hemolytic anemia, vasculitis, pleuritis, lupus-like syndrome, arthritis, and hepatitis Other symptoms may include decreased resistance to infections, purpuric, papular rash, stiffness in joints (arthritis), paresthesias, headache, nausea, loss or depigmentation of hair, drug fever, abdominal discomfort, dizziness, loss of taste, drowsiness, nephritis. Respiratory distress syndrome, productive cough, hemoptysis and pulmonary lesions may also occur.		

## 6-Propyl-2-thiouracil

Section 12. Ecologica	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 less toxic than the product itself.				
Special Remarks on the Products of Biodegradation	Not available.				

Section 13. Disp	Section 13. Disposal Considerations				
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.				

Section 14. Transport Information				
DOTClassification	Not a DOT controlled material (United States).			
Identification	Not applicable.			
Special Provisions for Transport	Not applicable.			
DOT (Pictograms)				

Section 15. Other R	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, bith defects or other reproductive harm, which would require a warning under the statute: 6-Propyl-2-thiouracil California prop. 65 (no significant risk level): 6-Propyl-2-thiouracil: 0.0007 mg/day (value) 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: 6-Propyl-2-thiouracil Illinois toxic substances disclosure to employee act: 6-Propyl-2-thiouracil New York release reporting list: 6-Propyl-2-thiouracil Pennsylvania RTK: 6-Propyl-2-thiouracil Minnesota: 6-Propyl-2-thiouracil Massachusetts RTK: 6-Propyl-2-thiouracil New Jersey: 6-Propyl-2-thiouracil California Director's List of Hazardous Substances 6-Propyl-2-thiouracil TSCA 8(b) inventory: 6-Propyl-2-thiouracil
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: 6-Propyl-2-thiouracil 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	t Page

6-Propyl-2-thiouracil				Page Number: 6
	EINECS: This produce 200-103-2). Canada: Listed on C China: Not listed on I Japan: Listed on Nati Korea: Listed on Nati	tional Inventory (ENCS). tional Inventory (KECI). on National Inventory (PICCS).	g Commercial Chemical S	Substances (EINECS No.
Other Classifications	WHMIS (Canada)	CLASS D-2A: Material causing other toxic	c effects (VERY TOXIC).	
	DSCL (EEC)	R22- Harmful if swallowed. R40- Limited evidence of a carcinogenic effect.	S46- If swallowed, seek m immediately and show thi	
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	1National Fire Protection1Association (U.S.A.)0E	Health	Flammbility Reactivity Specific hazard
WHMIS (Canada) (Pictograms)	(Ţ)			
DSCL (Europe) (Pictograms)				
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				
Protective Equipment	Glove	29		
		coat.		
	Approvide Approvide Approvide Approvide Approvide Approvide Approximate Approx	respirator. Be sure to use an oved/certified respirator or equivalent. r appropriate respirator when ventilation adequate. ty glasses		
	$\nabla \sigma$			

Section 16. Other Information

MSDS Code	3955H		
References	Not available.		
Other Special Considerations	Medication. Antithyroid drug. It is used theraputically to suppress thyroid function.		
Validated by Sonia Owen on 6/8/2009.		Verified by Sonia Owen. Printed 6/8/2009.	
CALL (310) 516-800	0		
CALL (310) 510-800	0		

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.