



## Phebra Pty Ltd

Chernwatch: 25-9467 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 24/02/2014 Print Date: 07/03/2018 S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

## **Product Identifier**

Product name	PTU™, Propylthiouracil 50mg Tablet
Synonyms	Not Available
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	PTU <sup>TM</sup> Tablets are indicated for the total treatment of hyperthyroidism or in the treatment of the thyrotoxic patient prior to surgery or radioactive-iodine
	therapy.

## Details of the supplier of the safety data sheet

Registered company name	Phebra
Address	19 Orion Road Lane Cove West NSW 2066 Australia
Telephone	+61 2 9420 9199 1800 720 020
Fax	+61 2 9420 9177
Website	www.phebra.com
Email	info@phebra.com

## Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 401 264 004
Other emergency telephone numbers	N/A

## **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

Hazard pictogr

Poisons Schedule	S4
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Germ cell mutagenicity Category 2, Carcinogenicity Category 2, Specific target organ toxicity - repeated exposure Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

## Label elements

am(s)
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SIGNAL WORD	WARNING

## Hazard statement(s)

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hazara statement(s)		
H302	Harmful if swallowed.	
H341	Suspected of causing genetic defects.	
H351	Suspected of causing cancer.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Precautionary statement(s) Prevention		
P201	Obtain special instructions before use.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P281	Use personal protective equipment as required.	
P264	Wash all exposed external body areas thoroughly after handling.	

# PTU<sup>™</sup>, Propylthiouracil 50mg Tablet

**P270** Do not eat, drink or smoke when using this product.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
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# Precautionary statement(s) Storage

P405

P501

Store locked up.

Precautionary statement(s) Disposal

Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
51-52-5	54.6	propylthiouracil
9005-25-8	19.5	starch
63-42-3	18	alpha-lactose
9003-39-8	5.2	vinylpyrrolidone homopolymer
151-21-3	1.6	sodium lauryl sulfate
557-04-0	1.1	magnesium stearate

## **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

-		
Eye Contact	If this product comes in contact with eyes: <ul> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>	
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>	
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>	
Ingestion	<ul> <li>If SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> <li>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: <ul> <li>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> </ul> </li> <li>NOTE: Wear a protective glove when inducing vomiting by mechanical means.</li> </ul>	

## Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

#### BASIC TREATMENT

- \_\_\_\_\_
- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.

DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

\_\_\_\_\_

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.

• Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994 Treat symptomatically.

## **SECTION 5 FIREFIGHTING MEASURES**

### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of:         <ul> <li>carbon dioxide (CO2)</li> <li>ritrogen oxides (NOx)</li> <li>sulfur oxides (SOx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul> </li> </ul>	
HAZCHEM	Not Applicable	

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Secure load if safe to do so.</li> <li>Bundle/collect recoverable product.</li> <li>Collect remaining material in containers with covers for disposal.</li> </ul>
Major Spills	<ul> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> <li>Prevent spillage from entering drains or water ways.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labeled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	
Safe handling	Avoid all personal contact, including inhalation.

	<ul> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> </ul>
Other information	Store away from incompatible materials.
Conditions for safe storage,	including any incompatibilities
Suitable container	<ul> <li>Glass container is suitable for laboratory quantities</li> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
	Protect from light.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	starch	Starch	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	magnesium stearate	Stearates	10 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS					
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
starch	Thyodene; (Amylodextrin)		30 mg/m3	330 mg/m3	2,000 mg/m3
vinylpyrrolidone homopolymer	Poly(1-vinyl-2-pyrrolidinone) homopolymer; (Polyvinylpyrrolidone; Plasdone)		51 mg/m3	560 mg/m3	20,000 mg/m3
sodium lauryl sulfate	Sodium lauryl sulfate		3.9 mg/m3	43 mg/m3	260 mg/m3
Ingredient	Original IDLH	Revised IDLH			
propylthiouracil	Not Available	Not Available			
starch	Not Available	Not Available			
alpha-lactose	Not Available	Not Available			
vinylpyrrolidone homopolymer	Not Available	Not Available			
sodium lauryl sulfate	Not Available	Not Available			
magnesium stearate	Not Available	Not Available			

## Exposure controls

	Enclosed local exhaust ventilation is required at points of dust, fume or vapour generation.
	HEPA terminated local exhaust ventilation should be considered at point of generation of dust, fumes or vapours.
	Barrier protection or laminar flow cabinets should be considered for laboratory scale handling.
Appropriate engineering controls	A fume hood or vented balance enclosure is recommended for weighing/ transferring quantities exceeding 500 mg.
	When handling quantities up to 500 gram in either a standard laboratory with general dilution ventilation (e.g. 6-12 air changes per hour) is preferred. Quantities up to 1 kilogram may require a designated laboratory using fume hood, biological safety cabinet, or approved vented enclosures. Quantities exceeding 1 kilogram should be handled in a designated laboratory or containment laboratory using appropriate barrier/ containment technology.
	Manufacturing and pilot plant operations require barrier/ containment and direct coupling technologies.
Personal protection	
	When handling very small quantities of the material eye protection may not be required.
	<ul> <li>For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs:</li> <li>Chemical goggles.</li> </ul>
Eye and face protection	<ul> <li>Face shield. Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>Contact lenses may pose a special bazard: soft contact lenses may absorb and concentrate irritants. A written policy document describing the wearing.</li> </ul>
	of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Rubber gloves (nitrile or low-protein, powder-free latex, latex/ nitrile). Employees allergic to latex gloves should use nitrile gloves in preference.</li> <li>Double gloving should be considered.</li> <li>PVC gloves.</li> <li>Change gloves frequently and when contaminated, punctured or torn.</li> </ul>

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# PTU™, Propylthiouracil 50mg Tablet

	<ul> <li>Wash hands immediately after removing gloves.</li> <li>Protective shoe covers. [AS/NZS 2210]</li> <li>Head covering.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>For quantities up to 500 grams a laboratory coat may be suitable.</li> <li>For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs.</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers.</li> <li>For manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection.</li> <li>Eye wash unit.</li> <li>Ensure there is ready access to an emergency shower.</li> <li>For Emergencies: Vinyl suit</li> </ul>
Thermal hazards	Not Available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Appearance	PTU <sup>™</sup> Tablets are round, white and biconvex. One side is debossed with "PRESTAB" while the other side is plain.				
Physical state	Manufactured	Relative density (Water = 1)	Not Available		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable		
pH (as supplied)	Not Applicable	Decomposition temperature	Not Applicable		
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable		
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	Not Applicable	Taste	Not Available		
Evaporation rate	Not Applicable	Explosive properties	Not Available		
Flammability	Not Applicable	Oxidising properties	Not Available		
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable		
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable		
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available		
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable		
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available		

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Side effects from the usage of antithyroid agents include nausea, vomiting, distress, headache, skin rashes, hives, and itching. Other effects include fever, joint pain, lupus, inflammation of blood vessels, liver inflammation, and hair loss.
Skin Contact	Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models). Systemic harm, however, has been identified following exposure of animals by at least one other route and the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.

	There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Prolonged exposure to high doses of thyroid inhibitors cause severe enlargement of the thyroid and reduced levels of circulating thyroid hormone.					
PTU™, Propylthiouracil 50mg Tablet	TOXICITY					
	Not Avaliable					
	ΤΟΧΙΟΙΤΥ	IRRITATION				
propyitniouracii	Oral (rat) LD50: 1250 mg/kg <sup>[2]</sup>	Not Available				
	ΤΟΧΙΟΙΤΥ	IRRITATION				
starch	Not Available	Not Available Skin (human): 0.3 mg/3d-l mild				
	ΤΟΧΙΟΙΤΥ	IRRITATION				
alpha-lactose	Oral (rat) LD50: >10000 mg/kg <sup>[2]</sup>	Not Available				
	τοχιείτα	IPPITATION				
	Inhelation (rat) $1.050 \times 5.2 \text{ mg/l/4h**}^{[2]}$	Eve (rabbit):non-	irritating (Draize)*			
	Oral (rat) L D50: >100 000 mg/kg <sup>[2]</sup>	Skin (rabbit):non	-irritating(Draize)**			
	ΤΟΧΙΟΙΤΥ	IRRITATION				
sodium lauryl sulfate	Oral (rat) LD50: 1288 mg/kg <sup>[2]</sup>	Eye (rabbit):100 r	ng/24 hr-moderate			
		Skin (human): 25	mg/24 hr - mild			
	ΤΟΧΙΟΙΤΥ	IRRITATION				
magnesium stearate	Not Available	Not Available				
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substa data extracted from RTECS - Register of Toxic Effect of a</li> </ol>	nces - Acute toxicity 2.* Value obtained l chemical Substances	from manufacturer's SDS. Unless otherwise specified			
PTU™, Propylthiouracil 50mg Tablet	For alkyl sulfates; alkane sulfonates and alpha-olefin sulfonates Most chemicals of this category are not defined substances, but mixtures of homologues with different alkyl side chains. Common physical and/or biological pathways result in structurally similar breakdown products, and are, together with the surfactant properties, responsible for similar environmental behavior and essentially identical hazard profiles with regard to human health. Acute toxicity: These substances are well absorbed after ingestion; penetration through the skin is however, poor. After absorption, these chemicals are distributed mainly to the liver. In animals, signs of poisoning by mouth include lethargy, hair standing up, decreased motor activity and breathing rate, and diarrhea. Poisoning from skin contact caused irritation, tremor, tonic-clonic convulsions, breathing failure, and weight loss. The C-12-akyl sulfate sodium salt caused the greatest effect. In eye irritation tests, C-12 containing alkyl sulfates at greater than 10% concentration were severely irritating and produced irreversible effects on the comma					
PROPYLTHIOURACIL	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Oral (woman) LDLo: 84 mg/kg/2W-I Nil reported Oral (woman) LDLo: 480 mg/kg/9W-I Oral (woman) TDLo: 900 mg/kg/21W-I Oral (man) TDLo: 116 mg/kg/1W-I					
STARCH	The material may cause skin irritation after prolonged or r scaling and thickening of the skin.	repeated exposure and may produce on	contact skin redness, swelling, the production of vesicles,			
ALPHA-LACTOSE	Equivocal tumorigenic agent by RTECS criteria.					
VINYLPYRROLIDONE HOMOPOLYMER	The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Chronic toxicity ** Genetic toxicity: No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals. Carcinogenicity: In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed. Developmental toxicity/teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies * ISP MSDS **BASF MSDS					
MAGNESIUM STEARATE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. Fatty acid salts of low acute toxicity. Their potential to irritate the skin and eyes is dependent on chain length.					
Acute Toxicity	✓	Carcinogenicity	✓			
Skin Irritation/Corrosion	0	Reproductivity	0			
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0			
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	*			
Mutagenicity	✓	Aspiration Hazard	$\otimes$			

седена:

 $- Data \text{ available but uses not infinite orienta for Gassingation} \\ - Data available to make classification$ 

🚫 – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

Ioxicity					
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
PTU™, Propylthiouracil 50mg Tablet	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
propylthiouracil	LC50	96	Fish	>100mg/L	6
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
starch	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
alpha-lactose	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	SPECIES VALUE	
vinylpyrrolidone homopolymer	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.59mg/L	4
	EC50	48	Crustacea	0.67mg/L	4
sodium lauryl sulfate	EC50	96	Algae or other aquatic plants	1.2mg/L	4
	BCF	1	Fish	0.85mg/L	4
	EC15	24	Crustacea	0.17mg/L	4
	NOEC	0.08	Fish	0.0000013mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
magnesium stearate	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1 (QSAR) - Aquat (Japan) - Biocor	. IUCLID Toxicity Data 2. Europe ECHA ic Toxicity Data (Estimated) 4. US EPA, I centration Data 7. METI (Japan) - Bioco	Registered Substances - Ecotoxicological Informat Ecotox database - Aquatic Toxicity Data 5. ECETO( ncentration Data 8. Vendor Data	ion - Aquatic Toxicity 3. EPIWI C Aquatic Hazard Assessment	N Suite V3.12 Data 6. NITE

### DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
propylthiouracil	HIGH	HIGH
alpha-lactose	LOW	LOW
vinylpyrrolidone homopolymer	LOW	LOW
sodium lauryl sulfate	HIGH	HIGH

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
propylthiouracil	LOW (BCF = 38)
alpha-lactose	LOW (LogKOW = -5.1249)
vinylpyrrolidone homopolymer	LOW (LogKOW = 0.2484)
sodium lauryl sulfate	LOW (BCF = 7.15)

# Mobility in soil

Ingredient	Mobility
propylthiouracil	LOW (KOC = 271.5)
alpha-lactose	LOW (KOC = 10)
vinylpyrrolidone homopolymer	LOW (KOC = 40.46)
sodium lauryl sulfate	LOW (KOC = 10220)

## PTU<sup>™</sup>, Propylthiouracil 50mg Tablet

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containeres if possible, or dispose of in an authorised landfill.</li> </ul>
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## **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

## SECTION 15 REGULATORY INFORMATION

### Safety, health and environmental regulations / legislation specific for the substance or mixture

PROPYLTHIOURACIL(51-52-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs STARCH(9005-25-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Exposure Standards Australia Inventory of Chemical Substances (AICS) ALPHA-LACTOSE(63-42-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS) VINYLPYRROLIDONE HOMOPOLYMER(9003-39-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs SODIUM LAURYL SULFATE(151-21-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS) MAGNESIUM STEARATE(557-04-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Inventory of Chemical Substances (AICS) Australia Exposure Standards National Inventory Status Australia - AICS Y Canada - DSI N (propylthiouracil) Canada - NDSL N (alpha-lactose; sodium lauryl sulfate; magnesium stearate; vinylpyrrolidone homopolymer) China - IECSC N (propylthiouracil) Europe - EINEC / ELINCS / NLP N (vinylpyrrolidone homopolymer) Y Japan - ENCS Korea - KECI Υ New Zealand - NZIoC Υ Philippines - PICCS Y USA - TSCA Υ Y = All ingredients are on the inventory Legend: N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### SECTION 16 OTHER INFORMATION

### Other information

## Ingredients with multiple cas numbers

Name	CAS No
starch	9005-25-8, 65996-63-6, 68441-21-4, 9005-84-9
alpha-lactose	63-42-3, 5989-81-1, 14641-93-1, 64044-51-5, 10039-26-6
vinylpyrrolidone homopolymer	9003-39-8, 25249-54-1, 111214-46-1, 116404-61-6, 132778-04-2, 132778-05-3, 132834-20-9, 153631-61-9, 29386-94-5, 41724-41-8, 496908-06-6, 53026-73-6, 53026-74-7, 53200-27-4, 61932-72-7, 65931-56-8, 862983-74-2, 9015-62-7, 9080-59-5
sodium lauryl sulfate	151-21-3, 1335-72-4, 3088-31-1, 9004-82-4

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## Definitions and abbreviations

PC — TWA: Permissible Concentration-Time Weighted Average PC — STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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