Phenylthiourea

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Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Phenylthiourea Science education applications Phenylthiocarbamide, PTC Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Section 2



Fatal if swallowed. May cause an allergic skin reaction.

GHS Classification:

Acute Toxicity - Oral Category 1, Skin Sensitisation Category 1

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

<u>Chemical Name</u>	CAS #	<u>%</u>
Phenylthiourea	103-85-5	100

Section 4

First Aid Measures

Emergency and First Aid Procedures					
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.				
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.				
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.				

Section 5

Firefighting Procedures

Extinguishing Media:

Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Fire Fighting Methods and Protection Fire and/or Explosion Hazards: Hazardous Combustion Products:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide, Carbon monoxide, Sulfur Oxides, Nitrogen oxides		
Section 6	Spill or Leak Procedures		
Released or Spilled:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Avoid contact with clothing. Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Avoid creating and inhaling dust. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Evacuate the area promptly. A large(uncontrolled) release should only be handled by a specially trained spill brigade or by a qualified contractor. Reduce airborne dust and prevent scattering by moistening with water Vacuum or sweep up material and place in a disposal container Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120). Do not allow the spilled product to enter public drainage system or open waterways.		

Section 7

Handling and Storage

Handling:	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke
	when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear
	protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-
	ventilated place.
Storage:	Store locked up. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may

make empty containers hazardous; use caution.

Nitrile

Storage Code: Blue - Toxic. Store separately in a secured area.

Section 8	Protection Information					
	AC	GIH	OSHA PEL			
Chemical Name	(TWA)	<u>(STEL)</u>	(TWA)	(STEL)		
No data available	N/A	N/A	N/A	N/A		
Control Parameters	ntrol Parameters					
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.					
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.					
Respiratory Protection:	No respiratory protection required under normal conditions of use. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements wheneve work place conditions warrant the use of a respirator.					
Respirator Type(s):	NIOSH approved air purifying respirator with dust/mist filter.					
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.					
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.					

Gloves:

Section 9

Physical Data

Formula: C6H5NHCSNH2 Molecular Weight: 152.22 Appearance: Crystals Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: 154 C Boiling Point: No data available Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.3 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Flash Point: No data available Flammable Limits in Air: N/A Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		No data available Stable under normal conditions. None known. Caustics (bases), Strong acids, Strong oxidizing agents Nitrogen oxides, Sulfur Oxides, Carbon dioxide, Carbon monoxide Will not occur				
Section 11		Toxici	ity Data			
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestion, eye or skin contact. No data available					
Acute Toxicity: Chemical Name Phenylthiourea		CAS Number 103-85-5	Oral LD50 Oral LD50 Rabbit 40 mg/kg Oral LD50 Mouse 10 mg/kg Oral LD50 Rat 3 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined	
Carcinogenicity: Chemical Name No data available		CAS Number 103-85-5	IARC Not listed	NTP Not listed	OSHA Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). Evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2, Respiratory system, Skin					
Chronic:	Reproductive					
Section 12		E	cological Data			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	No data No data No data No data	No data No data No data				
Chemical Name Phenylthiourea		CAS Number 103-85-5	Eco Toxicity Aquatic LC50 (48h) Daj	phnia = 59 MG/L		
Section 13		Disp	osal Informati	on		
Disposal Methods: Waste Disposal Code(s	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined					
Section 14		Tran	sport Informat	ion		

Ground - DOT Proper Shipping Name:

UN2811, Toxic Solid, organic, n.o.s. (Phenylthiourea), 6.1, I

Air - IATA Proper Shipping Name:

UN number: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solid, organic, n.o.s. (Phenyl-2-thiourea)

Section 15		Regulatory Information				
TSCA Status:	All comp	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Phenylthiourea	103-85-5	No	No	100 lb final RQ: 45.4 kg final RQ	100 lb lower TPQ; 10000 lb upper TPQ	No

Section 16

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health