SAFETY DATA SHEET



1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	-CPPU		
PRODUCT NUMBER:	C279		
COMPANY INFO:	<i>Phyto</i> Technology Laboratories® PO Box 12205, Shawnee, KS 66282-2205 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442 www.phytotechlab.com		
EMERGENCY PHONE NUM	BER: 1-800-535-5053 - US Only 1-352-323-3500 - International		
RECOMMENDED USE: For Research Use Only			
RESTRICTIONS ON USE: Products sold by <i>Phyto</i> Technology Laboratories® are intended for research and laboratory only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural pesticidal products, food additives, or as household chemicals.			

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H302 - Acute toxicity, Oral (Category 4) H401 – Acute aquatic toxicity (Category 2)

GHS Label elements, including hazard and precautionary statements:



Warning Signal Word:

Precautionary Statements:

Hazard Statements:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:	N-(2-Chloro-4-pyridyl)-N-phenylurea		
CAS No :	68157 60 8		

CAS NO.:	08157-00-8
Formula:	$C_{12}H_{10}CIN_3O$

Formula:

Molecular Weight: 247.7 g/mol P280 - Wear protective gloves/protective clothing/eye protection. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingredient	CAS Number	Percent	Hazardous
4-CPPU	68157-60-8	>98 %	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self- contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.			
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.			
7. HANDLING AND STORAGE				
Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Wash thoroughly after use.			
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.			
Incompatibilities:	Strong oxidizing agent			
Recommended Storage Temperature:	-20 to 0 °C			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold Limit Values (TLVs): No data available

Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	Appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to off-white powder				
pH:	No data	No data available			
Solubility:	Slightly	Slightly soluble in Water, More soluble in DMSO, ethanol, acetone and methanol.			
Melting Point:	165 - 17	0 °C (329 - 338 °F)			
Vapor Density:	No data	available			
Vapor Pressure:	4.6 hPa	(3.5 mmHg) at 25 °C (77 °F)			
Odor:	Odorless	3			
Odor Threshold:	No data	available			
Viscosity:	No data	No data available			
Relative Density:	No data available				
Evaporation Rate:		No data available			
Initial Boiling Point and Boiling Range:		No data available			
Flammability (solid, gas):		No data available			
Partition coefficient: n-octanol/water):		log Pow: 3.2 at 20 °C (68 °F)			
Auto-ignition Temperature:		No data available			
Decomposition Temperature:		No data available			
Flash Point (Closed Cup):		No data available			
Flammable Limits:		Upper (%) – No data available Lower (%) – No data available			

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	Will not occur
Conditions to Avoid:	Incompatibles
Incompatibles Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):		Male – 1568; Female – 2787
	LD ₅₀ (IV-Rat)(mg/Kg):		No data available
	LD ₅₀ (Oral-Mouse)(mg/Kg):		Male – 2218; Female – 2783
Carcinogenicity:	NTP:	No	
	IARC:	No	

	Z List:	No			
	OSHA Reg:	No			
Germ cell mutagenicity:	Ames test – S. typhimurium – Positive result				
Reproductive Toxicity:	No data available				
Symptoms Associated with Overexposure:	Irritation, sneezing, gastrointestinal upset				
Specific Target Organ Toxicity:	Single Exposure	e:	No data available		
Toxicity.	Repeated Expos	sure:	No data available		
Target Organs:	None identified				
Medical Conditions Aggravated By Exposure:	None identified				
Routes of Entry:	Ingestion, inhalation, skin and eye contact				
NIOSH/RTECS NO:	Not listed				
The toxicological properties of this product have not been thoroughly investigated					

12. ECOLOGICAL INFORMATION

Ecotoxicity:		Toxicity to	fish – LC50 – Oncorhynchus mykiss (rainbow trout) – 9.2 mg/L LC50 – Carassius auratus (goldfish) – 10 to 40 mg/L LC50 – Cyprinus carpio (Carp) – 8.6 mg/L daphnia – LC50 – Daphnia – 8.0 mg/L algae – EC – Pseudokirchneriella subcapitata – 3.3 mg/L		
Persistence and Degradability:		No data available			
Bioaccumulative Potential:		No data available			
Mobility in Soil: No data av		No data ava	ailable		
Other Adverse Effects: Toxic to aqu		Toxic to aqu	uatic life.		
13. DISPOSAL CONSIDERATION Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environm regulations.					
EPA Hazardous Waste	dous Waste Number: No data ava		ilable		
14. TRANSPORT INFORMATION					
Domestic (D.O.T.):	Proper Shipping Name:		CHEMICALS, N.O.S. (NON-REGULATED)		
	Hazard Class:		N/A		
	UN/NA:		N/A		
	Labels:		N/A		
International:					
IMDG: Proper Shipping Name Hazard Class:		ping Name:	CHEMICALS, N.O.S. (NON-REGULATED)		
		ss:	N/A		
	UN/NA:		N/A		
	Labels:		N/A		
IATA:	Proper Ship Hazard Cla	pping Name: ss:	CHEMICALS, N.O.S. (NON-REGULATED) N/A		

UN/NA:	N/A
Labels:	N/A
15. REGULATORY INFORMATION	
TSCA:	No
SARA TITLE III:	
Section 302 (EHS) Ingredients:	No
Section 313 Ingredients:	No
Section 304 (EHS/CERCLA) Ingredie	nts: No
Section 311/312 Hazard:	Acute Health Hazard
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components:	CAS No.: 68157-60-8 Urea, N-(2-chloro-4-pyridinyl)-N'-phenyl
New Jersey Right to Know Components:	CAS No.: 68157-60-8 Urea, N-(2-chloro-4-pyridinyl)-N'-phenyl
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	1		0	0
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	0	0	0	

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