

# SAFETY DATA SHEET

### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Pentachloronitrobenzene (PCNB)

PRODUCT NUMBER: P6737

COMPANY INFO: PhytoTech Labs Inc.

14610 W 106<sup>th</sup> St. Lenexa, KS 66215 Phone: 1-888-749-8682 or 1-913-341-5343

www.phytotechlab.com

EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Laboratory-use or Further Manufacture only

Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only.

RESTRICTIONS ON USE: Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal

products, food additives, in vitro diagnostics, or as household chemicals.

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

**GHS** Classification:

H302 – Acute toxicity, Oral (Category 4)

H334 – Respiratory sensitization (Category 1)

H400 – Acute aquatic toxicity (Category 1)

H401 – Chronic aquatic toxicity (Category 1)

GHS Label elements, including hazard and precautionary statements:

Hazard Statements:

Pictogram:







Precautionary Statements:

Signal Word:

H302 – Harmful if swallowed. P261 – Avoid breathing dust.

H334 – May cause allergy or asthma symptoms or P273 – Avoid release to the environment.

breathing difficulties if inhaled. P280 – Wear proactive gloves/protective clothing/eye

H410 – Very toxic to aquatic life with long lasting protection/face protection.

effects. P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER or doctor/physician.

Danger

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: PCNB, Quintozene

CAS No.: 82-68-8
Formula: C<sub>6</sub>Cl<sub>5</sub>NO<sub>2</sub>

Molecular Weight: 295.33 g/mol

EC No.: 201-435-0

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Ingredient	CAS Number	Percent	Hazardous	
Pentachloronitrobenzene	82-68-8	>94%	0.5 mg/m <sup>3</sup> ACGIH Threshold Limit Values (TLV)	
Hexachlorobenzene	93952-14-8	<1.0%	0.002 mg/m <sup>3</sup> ACGIH Threshold Limit Values (TLV) TLV: A3 Confirmed animal carcinogen with unknown	
			relevance to humans	

## 4. FIRST AID MEASURES

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

area.

**Symptoms First Aid Procedures Route of Entry** 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 Safely remove victim to fresh air. If not breathing, institute May cause irritation to respiratory cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to May cause redness, tearing, or ensure thorough rinsing. Get medical attention if irritation blurred vision. persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation. 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 selfcontained 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 oxides, Nitrogen oxides (NOx), 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.

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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: Room Temperature

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

ACGIH Threshold Limit Values (TLVs): 0.002 mg/m³ Hexachlorobenzene CAS No. 93952-14-8

Engineering Controls: 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: Off-White to Tan pH: No data available Solubility: Soluble in DMSO

Melting Point: 140 - 143 °C (284 - 289 °F) - lit.

Vapor Density: No data available
Vapor Pressure: No data available
Odor: No data available
Odor Threshold: No data available
Viscosity: No data available

Relative Density: 1.718 g/cm3 at 25 °C (77 °F) 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: 4.46

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: Moisture

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

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#### 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): 1,100

 $LD_{50}$  (Oral-Mouse)(mg/Kg): No data available

LD<sub>50</sub> (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: R (hexachlorobenzene)

IARC: 2B - Possibly carcinogenic to humans (hexachlorobenzene)

OSHA Reg: TLV-A3

Reproductive Toxicity: No data available

Symptoms Associated with

Overexposure:

Irritation, sneezing, gastrointestinal upset

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions

None identified

Aggravated By Exposure:

Routes of Entry: Inhalation, Ingestion

NIOSH/RTECS NO: DA6650000

# The toxicological properties of this product have not been thoroughly investigated

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish - LC50 - Lepomis macrochirus (Bluegill) - 0.1 mg/l - 96.0 h

Toxicity to daphnia - EC50 - Daphnia magna (Water flea) - 0.77 mg/l - 48 h

Persistence and Degradability: Bioconcentration factor (BCF): 169

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: Very toxic to aquatic life with long lasting effects

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s.

(Pentachloronitrobenzene)

Hazard Class: 9

UN: 3077 Packing group: III

Poison Inhalation

hazard:

No

International:

IMDG: Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s.

(Pentachloronitrobenzene)

Hazard Class: 9

UN: 3077 Packing group: III EMS-No.: F-A, S-F

Marine pollutant: Yes

IATA: Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s.

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(Pentachloronitrobenzene)

Hazard Class: 9

UN: 3077 Packing group: III

15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard

Massachusetts Right to Know Components: This product does not contain any components on the Massachusetts

Substance List (MSL).

Pennsylvania Right to Know Components: CAS No.: 82-68-8 Pentachloronitrobenzene
New Jersey Right to Know Components: CAS No.: 82-68-8 Pentachloronitrobenzene

California Prop. 65 Components: This product contains Hexochlorobenzene, a chemical known to State of

California to cause cancer.

## 16. OTHER INFORMATION

**HMIS Rating:** 

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
2	*	0	0
Health Hazard	Health Hazard Fire Hazard		Special Hazard
2	0	0	

**NFPA Rating:** 

PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY OR FURTHER MANUFACTURING USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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<sup>\*</sup>Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.