

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: ρ-Chlorophenoxyacetic Acid

PRODUCT NUMBER: C213

COMPANY INFO: PhytoTechnology 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 NUMBER: 1-800-535-5053 - US Only

1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

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

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)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Warning

Hazard Statements:

H302 – Harmful if swallowed.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

Precautionary Statements:

P280 – Wear protective gloves/protective

clothing/eye protection/face 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 4-CPA

CAS No.: 122-88-3

Formula: $C_8H_7ClO_3$

Molecular Weight: 186.59 g/mol

EC No.: 204-581-3

Ingredient	CAS Number	Percent	Hazardous
ρ-Chlorophenoxyacetic Acid	122-88-3	>97 %	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.

Product No: C213 Page 1 of 5

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, 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 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 Cleanup: 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.

Product is moisture sensitive.

Incompatibilities: Strong bases

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Product No: C213 Page 2 of 5 Threshold Limit Values (TLVs): No data available

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: Respiratory protection is not required.

Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.

A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying

respirators is limited.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white to tan powder

pH: No data available – Solvent dependent

Solubility: Soluble in NaOH or KOH

Melting Point: 150-160 °C

Vapor Density: No data available
Vapor Pressure: No data available

Odor: May have phenolic odor

Odor Threshold: No data available
Viscosity: 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):

Auto-ignition Temperature:

No data available

No data available

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 bases

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 850

 LD_{50} (IP-Mouse)(mg/Kg): 680

LD₅₀ (Dermal-Rabbit)(mg/Kg): No data available

Product No: C213 Page 3 of 5

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with

Irritation, itching, gastrointestinal upset, eye irritation, headache

Overexposure:

Specific Target Organ Single Exposure: No data available

Toxicity:

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions None identified

Aggravated By Exposure:

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: AG0175000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish LC50 - Lepomis macrochirus - > 180 mg/l - 96 h

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

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: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

Product No: C213 Page 4 of 5

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: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 122-88-3 4-CPA
New Jersey Right to Know Components: CAS No.: 122-88-3 4-CPA

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
2		0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
2	0	0	

NFPA Rating:

Phyto Technology Laboratories® 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. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 1 May 15

Product No: C213 Page 5 of 5