SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-ER-00463
Product Name	P-Chloroaniline(Secondary Standards traceble to USP)
CAS No.	106-47-8
Category	Pesticide Standards
Synonyms	4-chloroaniline
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Serious eye damage/eye irritation (Category 2)
Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement
H301	Not available
H311	Not available
H317	May cause an allergic skin reaction.

H331	Not available
H350	Not available
H400	Not available
H410	Not available
H301+H311+H331	Not available
H319	Causes serious eye irritation.
H373	Not available
H320	Not available
H332	Harmful if inhaled.
H341	Not available
H351	Not available
H370	Not available
H372	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Not available
P264	Wash hands thoroughly after handling.
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P272	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P316	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P316	Not available
P318	Not available

P321	Specific treatment (see … on this label).
P330	Not available
P333+P317	Not available
P361+P364	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P260	Not available
P264+P265	Not available
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen
P319	Get medical help if you feel unwell.
P337+P317	If eye irritation persists: Get medical help.
P308+P316	Not available
P317	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : P-Chloroaniline(Secondary Standards traceble to USP)
CAS Number : 106-47-8
Molecular Formula : C6H6ClN
Molecular Weight : 127.57
Parent Chemical : -
Synonyms : 4-chloroaniline
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
General advice:
- Remove contaminated clothing and shoes. Seek medical attention if symptoms occur or persist.
- Show this Safety Data Sheet to medical personnel.

Inhalation:

- Move person to fresh air and keep at rest in a position comfortable for breathing.
- If breathing is difficult, seek medical attention.

Skin contact:
- Wash with plenty of soap and water.
- Seek medical attention if irritation or symptoms develop.

Eye contact:
- Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
- Continue rinsing and obtain medical attention.

Ingestion:
- Rinse mouth. Do NOT induce vomiting.
- Never give anything by mouth to an unconscious person.
- Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
- No data available.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.
- No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media:
- Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO2).
Unsuitable extinguishing media:
- No data available.

5.2 Special hazards arising from the substance or mixture
- May emit hazardous fumes on combustion/thermal decomposition.
- Hazardous combustion products: No data available.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Use water spray to cool unopened containers.
- Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Evacuate unnecessary personnel.
- Avoid breathing dust/vapors and avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

6.2 Environmental precautions
- Avoid release to the environment.
- Prevent entry into drains, surface water, and soil.

6.3 Methods and material for containment and cleaning up
- Avoid generating dust.
- Collect spilled material using non-sparking tools and place in a suitable, labeled container for disposal.
- Clean contaminated area with suitable cleaning method; do not wash into drains.

6.4 Reference to other sections
- See Section 8 for personal protective equipment.
- See Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Handle in accordance with good industrial hygiene and safety practice.
- Avoid breathing dust/vapors.
- Avoid contact with skin, eyes, and clothing.
- Use only with adequate ventilation.
- Wash hands thoroughly after handling.
- Do not eat, drink, or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities
- Store in a tightly closed container in a cool, dry, well-ventilated place.
- Protect from moisture.
- Keep away from incompatible materials.

Incompatible materials:
- No data available.

7.3 Specific end use(s)
- Laboratory/research standard. Not available for other uses.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits:
- Not available.

Biological limit values:
- Not available.

8.2 Exposure controls
Engineering controls:
- Use local exhaust ventilation or general ventilation to minimize exposure.

Personal protective equipment (PPE):
Eye/face protection:

- Safety glasses with side shields or chemical splash goggles.
Skin protection:
- Protective gloves (chemical-resistant). Select glove material based on permeation data if available.
- Protective clothing as appropriate.
Respiratory protection:
- If ventilation is inadequate or exposure is possible, use a suitable respirator.
- Selection of respirator: No data available.
Hygiene measures:
- Remove contaminated clothing and wash before reuse.
- Wash hands and exposed skin after handling.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	2.7
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available

Property	Value
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

SECTION 10: Stability and reactivity

10.1 Reactivity
- No data available.

10.2 Chemical stability
- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
- No data available.

10.4 Conditions to avoid
- Heat, flames, sparks.
- Incompatible materials.

10.5 Incompatible materials
- No data available.

10.6 Hazardous decomposition products
- No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: Symptoms after accidental exposure include increased methemoglobin and sulfhemoglobin levels, cyanosis, the development of anemia, and changes due to anoxia. The prominent toxic effect is methemoglobin formation. PCA also exhibits a nephrotoxic and hepatotoxic potential. LC50 (rat) = 2,340 mg/m3/4h
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: A variety of in vitro genotoxicity tests (Salmonella mutagenicity test, mouse lymphoma assay, chromosomal aberration test, induction of sister chromatid exchange) indicate that PCA is possibly genotoxic, although results are sometimes conflicting. Due to lack of data, it is impossible to make any conclusion about PCA's in vivo genotoxicity.
- Carcinogenicity: PCA is carcinogenic in male rats, with the induction of unusual and rare tumors of the spleen (fibrosarcomas and osteosarcomas). Increased incidences of pheochromocytoma of the adrenal gland in male and female rats may have been related to PCA administration. There was some evidence of carcinogenicity in male mice, indicated by hepatocellular tumors and hemangiosarcoma. Likely to be carcinogenic to humans

- Reproductive toxicity: No studies are available on reproductive toxicity.
- STOT-single exposure: No data available.
- STOT-repeated exposure: Repeated exposure leads to cyanosis and methemoglobinemia, followed by effects in blood, liver, spleen, and kidneys, manifested as changes in hematological parameters, splenomegaly, and moderate to heavy hemosiderosis in spleen, liver, and kidney, partially accompanied by extramedullary hematopoiesis. These effects occur secondary to excessive compound-induced hemolysis and are consistent with a regenerative anemia.
- Aspiration hazard: No data available.

Likely routes of exposure
- MAY BE ABSORBED! Further see Inhalation.

Symptoms related to the physical, chemical and toxicological characteristics
- Symptoms include increased methemoglobin and sulfhemoglobin levels, cyanosis, the development of anemia, and changes due to anoxia. The prominent toxic effect is methemoglobin formation.

SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
- No data available.

12.2 Persistence and degradability
- No data available.

12.3 Bioaccumulative potential
- No data available.

12.4 Mobility in soil
- No data available.

12.5 Results of PBT and vPvB assessment
- Not available.

12.6 Endocrine disrupting properties
- No data available.

12.7 Other adverse effects
- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product:
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains or the environment.

Contaminated packaging:
- Dispose of as unused product in accordance with applicable regulations.

Waste code:

- Not available.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number
- Not available.

14.2 UN proper shipping name
- Not available.

14.3 Transport hazard class(es)
- Not available.

14.4 Packing group
- Not available.

14.5 Environmental hazards
- Not available.

14.6 Special precautions for user
- Not available.

14.7 Maritime transport in bulk according to IMO instruments
- Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- No data available.

15.2 Chemical safety assessment
- Not available.

SECTION 16: Other information

SECTION 16: Other information

Product identifier:
- Product name: P-Chloroaniline (Secondary Standards traceble to USP)
- Synonyms: 4-chloroaniline
- CAS No.: 106-47-8
- Catalog No.: CS-ER-00463
- Category: Pesticide Standards
- Molecular weight: 127.57

Supplier:
- Clearsynth Labs Ltd., Mumbai, India

Emergency telephone:
- +91-22-245045900

Revision information:
- Not available.

Disclaimer:
- The information provided is believed to be accurate based on available product information, but no warranty is expressed or implied. Users are responsible for determining suitability and for compliance with applicable regulations.

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