

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

Catalogue Number	CS-T-31674
Product Name	Mecoprop
CAS No.	93-65-2
Category	Pesticide Standards
Synonyms	2-(4-chloro-2-methylphenoxy)propanoic acid
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:

Skin irritation (Category 2)

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.

H400	Not available
H410	Not available
H311	Not available
H402	Not available
H412	Not available
H351	Not available

Precautionary Statement(s)

Code	Statement
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P354+P338	Not available
P317	Not available
P321	Specific treatment (see ... on this label).
P330	Not available
P332+P317	If skin irritation occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P262	Not available
P316	Not available
P361+P364	Not available
P405	Store locked up.
P203	Not available
P318	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Mecoprop

CAS Number : 93-65-2

Molecular Formula : C₁₀H₁₁ClO₃

Molecular Weight : 214.65

Parent Chemical : -

Synonyms : 2-(4-chloro-2-methylphenoxy)propanoic acid

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 persist or develop.

Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.

Skin contact: Wash with plenty of soap and water. Get medical advice/attention if irritation occurs.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing. Seek medical attention if irritation persists.

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Not 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.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

May form hazardous decomposition products under fire conditions. Thermal decomposition may produce irritating and/or toxic fumes/gases. Specific decomposition products: Not 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

Avoid breathing dust/vapors/mist. Avoid contact with skin and eyes. Provide adequate ventilation. Use appropriate personal protective equipment.

6.2 Environmental precautions

Avoid release to the environment. Prevent entry into drains, surface waters, and soil.

6.3 Methods and material for containment and cleaning up

Contain spill. Collect spilled material using non-sparking tools where applicable. Absorb with inert material (e.g., sand, earth, vermiculite) and place in a suitable, labeled container for disposal. Clean contaminated area with water and detergent. Dispose of waste in accordance with local regulations.

6.4 Reference to other sections

See Section 8 for personal protective equipment and 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 contact with skin, eyes, and clothing. Avoid breathing dust/vapors/mist. 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 tightly closed container in a cool, dry, well-ventilated place. Protect from moisture. Keep away from incompatible materials. Incompatible materials: Not available.

7.3 Specific end use(s)

Pesticide standard / laboratory use. No data available.

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: Provide adequate ventilation. Use local exhaust where dusts/vapors/mists may be generated.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material not available). Wear protective clothing to prevent skin contact.
- Respiratory protection: If ventilation is inadequate or exposure is possible, use appropriate respiratory protection (type not available).
- Hygiene measures: Wash hands and exposed skin after handling. Remove contaminated clothing and wash before reuse.

Environmental exposure controls: Avoid release to the environment.

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	No data available
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
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

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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, open flames, and other ignition sources. Other conditions: Not available.

10.5 Incompatible materials

Not available.

10.6 Hazardous decomposition products

May produce irritating and/or toxic fumes/gases upon decomposition. Specific products: Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: HUMAN STUDIES: Serious intoxication cases reported central nervous system involvement with unconsciousness and inadequate respiration; muscle cramps; rhabdomyolysis with renal failure; serious decrease in arterial blood pressure (hypotension). One reported ingestion case (500 mL of a mecoprop product) resulted in death due to hypotension and respiratory failure 36 hours after hospital admission. Laboratory abnormalities reported included decreased platelets and hemoglobin and elevated creatine phosphokinase and myoglobin levels; acute renal failure secondary to rhabdomyolysis requiring hemodialysis was reported in one case; in surviving patients, no long-term effects were reported. ANIMAL STUDIES: In rats, structural changes in spleen and thymus and changes in the number of blood lymphocytes and granulocytes were reported.

- Skin corrosion/irritation: In Wistar rats, dermal application of MCPP-P-DMA salt for 4 weeks produced treatment-related very slight (grade 1) erythema to moderate or severe (grade 3) erythema at 1000 mg/kg/day; NOEL (dermal, M/F)=120 mg/kg/day (based on treatment-related skin irritation).

- Serious eye damage/eye irritation: No data available.

- Respiratory or skin sensitization: No data available.

- Germ cell mutagenicity: In male human blood lymphocytes, chromosomal aberrations were increased in the presence of activation at a cytotoxic dosing level of 2500 ug/mL. In Salmonella typhimurium strains TA98, TA100, TA1535, and TA1537 exposed in the presence and absence of activation to MCPP (0, 50, 150, 500, 1500, 5000 ug/plate), an increase in reversion frequency was not indicated.

- Carcinogenicity: In a carcinogenicity study in mice, MCPP administered in the diet (males: 4, 40, 592 mg/kg/day; females: 4, 46, 732 mg/kg/day) showed no treatment-related increase in tumor incidence compared to controls; in females, increased incidence of chronic nephropathy and increased absolute and relative kidney weight were reported.

- Reproductive toxicity: In mice, MCPP given orally on days 6-15 of pregnancy was embryotoxic at doses greater than or equal to 300 mg/kg and caused malformations of the skeleton at doses greater than or equal to 400 mg/kg.

- STOT-single exposure: No data available.

- STOT-repeated exposure: In rats, MCPP caused structural changes in spleen and thymus and changes in the number of blood lymphocytes and granulocytes. In mice, dietary administration was associated (in females) with increased incidence of chronic nephropathy and increased absolute and relative kidney weight.

- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Central nervous system involvement; unconsciousness; inadequate respiration/respiratory failure; muscle cramps; rhabdomyolysis with renal failure; hypotension; laboratory abnormalities including decreased platelets and hemoglobin and elevated creatine phosphokinase and myoglobin levels.

SECTION 12: Ecological information

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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

Dispose of contents/container in accordance with local/regional/national/international regulations. Do not discharge to drains or the environment.

Product: Dispose of as hazardous waste or as required by regulations (classification not available).

Contaminated packaging: Dispose of as unused product. Empty containers may retain residues.

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

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

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CAS No.: 93-65-2

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Catalog No.: CS-T-31674

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

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Revision date: Not available.

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