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

Catalogue Number	CS-ER-01298
Product Name	Metacresol(Secondary Standards traceble to USP)
CAS No.	108-39-4
Category	Pesticide Standards
Synonyms	Not available
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:

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement
H301	Not available
H311	Not available
H314	Not available
H412	Not available

H227	Not available
H318	Causes serious eye damage.
H351	Not available
H370	Not available
H372	Not available
H373	Not available
H401	Not available
H312	Harmful in contact with skin.
H335	Not available
H361	Not available

Precautionary Statement(s)

Code	Statement
P260	Not available
P262	Not available
P264	Wash hands thoroughly after handling.
P270	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P316	Not available
P301+P330+P331	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P302+P361+P354	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	Not available
P316	Not available
P321	Specific treatment (see … on this label).
P330	Not available
P361+P364	Not available
P363	Not available
P405	Store locked up.

P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P273	Not available
P203	Not available
P210	Not available
P264+P265	Not available
P308+P316	Not available
P317	Not available
P318	Not available
P319	Get medical help if you feel unwell.
P370+P378	Not available
P403	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Metacresol(Secondary Standards traceble to USP)
CAS Number : 108-39-4
Molecular Formula : C7H8O
Molecular Weight : 108.14
Parent Chemical : -
Synonyms : Not available
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 if exposure is significant.
Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
Skin contact: Wash immediately with plenty of soap and water. Seek medical attention if irritation or symptoms occur.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
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: Use extinguishing measures appropriate to surrounding fire (e.g., 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 emit hazardous fumes on heating/combustion (e.g., carbon oxides). Additional decomposition products: Not available.

5.3 Advice for firefighters
Wear self-contained breathing apparatus (SCBA) and full protective gear. Cool containers exposed to fire with water spray. 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. Wear appropriate personal protective equipment.

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
Contain spill. Collect using inert absorbent material and place in a suitable, labeled container for disposal. Clean contaminated area with suitable cleaning method. 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.

7.2 Conditions for safe storage, including any incompatibilities
Store in a tightly closed container in a cool, dry, well-ventilated place. Protect from heat and ignition sources. Keep away from incompatible materials. Incompatible materials: Not available.

7.3 Specific end use(s)
Laboratory/research use as reference standard. Other specific uses: Not 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 general and/or local exhaust ventilation to control airborne levels.
Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Wear protective gloves and protective clothing appropriate to the task.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection.
- Hygiene measures: Do not eat, drink, or smoke when using this product. Wash hands after handling. Remove contaminated clothing and wash before reuse.
Environmental exposure controls: Avoid release to the environment; use appropriate containment.

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

Property	Value
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

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

10.5 Incompatible materials
Not available.

10.6 Hazardous decomposition products
Carbon oxides. Other decomposition products: Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: In an acute dermal toxicity study, technical grade m-cresol caused severe skin damage on at least 2/6 shaved, female, albino rabbits within 4 hours of application of 2830 mg/kg. In other experiment, 215-464 mg/kg of m-cresol was given orally to rats in a single dose orally and resulted in hypoactivity, convulsions, GI tract inflammation, hyperemia, and death. 1,400-2,100 mg/kg of m-cresol was given to rabbits in a single dose orally and

resulted in convulsions, coma, and death. 280-420 mg/kg of m-cresol was given to rabbits in a single dose iv and resulted in convulsions, coma and death.
- Skin corrosion/irritation: Corrosive. Causes severe eye and skin burns. Irritating to skin.
- Serious eye damage/eye irritation: m-Cresol, undiluted and in solution, can cause severe local irritation and corrosion following dermal and ocular exposure. Eye irritation can be severe and include corneal opacity.
- Respiratory or skin sensitization: Irritating to respiratory system. May act as a skin sensitizer.
- Germ cell mutagenicity: m-Cresol did induce unscheduled DNA synthesis with metabolic activation, but not without. The results of SCE production, chromosome aberration, forward mutation, and dominant lethal mutation assays indicated no genotoxicity. m-Cresol was tested for ability to induce chromosomal aberrations in mouse bone marrow in vivo. No effect on chromosomal aberrations was found.
- Carcinogenicity: C; possible human carcinogen. Based on an increased incidence of skin papillomas in mice in an initiation-promotion study. Human carcinogenicity data: Inadequate. Animal carcinogenicity data: Limited.
- Reproductive toxicity: In developmental studies, m-Cresol caused maternal toxicity in rats and rabbits, but it caused no effects on the developing embryos at any dose.
- STOT-single exposure: No data available.
- STOT-repeated exposure: Acute exposure to cholinesterase inhibitors can cause a cholinergic crisis characterized by severe nausea/vomiting, salivation, sweating, bradycardia, hypotension, collapse, and convulsions. Increasing muscle weakness is a possibility and may result in death if respiratory muscles are involved. Accumulation of ACh at motor nerves causes overstimulation of nicotinic expression at the neuromuscular junction. When this occurs symptoms such as muscle weakness, fatigue, muscle cramps, fasciculation, and paralysis can be seen. When there is an accumulation of ACh at autonomic ganglia this causes overstimulation of nicotinic expression in the sympathetic system. Symptoms associated with this are hypertension, and hypoglycemia. Overstimulation of nicotinic acetylcholine receptors in the central nervous system, due to accumulation of ACh, results in anxiety, headache, convulsions, ataxia, depression of respiration and circulation, tremor, general weakness, and potentially coma. When there is expression of muscarinic overstimulation due to excess acetylcholine at muscarinic acetylcholine receptors symptoms of visual disturbances, tightness in chest, wheezing due to bronchoconstriction, increased bronchial secretions, increased salivation, lacrimation, sweating, peristalsis, and urination can occur.
- Aspiration hazard: No data available.

Likely routes of exposure
- Ingestion of cresols results in burning of the mouth and throat, abdominal pain, and vomiting. Inhalation or dermal exposure to cresols can produce irritation and corrosion at the site of contact. (L482)

Symptoms related to the physical, chemical and toxicological characteristics
- Corrosive. Causes severe eye and skin burns. May be harmful if absorbed through skin or inhaled. Irritating to skin, eyes, and respiratory system. Symptoms include severe irritation of eyes with tearing, conjunctivitis, and corneal edema. May act as a skin sensitizer.

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
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 or according to local regulations.
Waste codes: 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
Not available.

15.2 Chemical safety assessment
No data available.

SECTION 16: Other information

SECTION 16: Other information

Product name: Metacresol (Secondary Standards traceble to USP)
Catalog No.: CS-ER-01298
CAS No.: 108-39-4
Supplier: Clearsynth Labs Ltd., Mumbai, India
Emergency phone: +91-22-245045900

Revision date: Not available
Revision number: Not available

Disclaimer: The information provided is based on available product information and is intended for guidance in safe handling, use, processing, storage, transportation, disposal, and release. It does not constitute a warranty of any kind. Users are responsible for compliance with applicable laws and regulations.

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