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

| | |
|---|---|
| **Catalogue Number** | CS-E-00080 |
| **Product Name** | 2,4-Xylenol |
| **CAS No.** | 105-67-9 |
| **Category** | Intermediate |
| **Synonyms** | Metacresol EP Impurity F |
| **Brand** | Clearsynth Labs Ltd. |
| **Identified uses** | Laboratory Chemicals |
| **Uses advised against** | Not available |
| **Company** | Clearsynth Labs Ltd.<br>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 |
| H411 | Toxic to aquatic life with long lasting effects. |

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H312 | Harmful in contact with skin. |
| H371 | Not available |
| H373 | Not available |
| H401 | Not available |
| H412 | Not available |
| H303 | Not available |

**Precautionary Statement(s)**

| Code | Statement |
|---|---|
| P260 | Not available |
| P262 | Not available |
| P264 | Wash hands thoroughly after handling. |
| P270 | Not available |
| P273 | 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 |
| P391 | Not available |
| P405 | Store locked up. |

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulatio |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264+P265 | Not available |
| P272 | Not available |
| P317 | Not available |
| P333+P317 | Not available |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P308+P316 | Not available |
| P319 | Get medical help if you feel unwell. |
| P301+P317 | Not available |

## SECTION 3: Composition / information on ingredients

3.1 Substance

Component : 2,4-Xylenol
CAS Number : 105-67-9
Molecular Formula : C8H10O
Molecular Weight : 122.2
Parent Chemical : Metacresol
Synonyms : Metacresol EP Impurity F
Concentration : Not available

## SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
General advice: Remove from exposure. Show this safety data sheet to the doctor in attendance.
Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.
Skin contact: Remove contaminated clothing and shoes. Wash skin with soap and plenty of water. Seek medical attention if irritation persists.
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. Never give anything by mouth to an unconscious person. 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. Not available.

## SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment (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
Hazardous combustion products: Not available.
Specific hazards: Not available.

5.3 Advice for firefighters
Wear self-contained breathing apparatus and full protective gear. Cool containers with water spray if exposed to fire. 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. Use appropriate personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions
Avoid release to the environment. Prevent entry into drains, sewers, or waterways.

6.3 Methods and material for containment and cleaning up
Contain spill. Collect using non-sparking tools and place in a suitable, labeled container for disposal. Clean contaminated area with suitable cleaning method. Dispose of waste in accordance with applicable 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. Use with adequate ventilation. Keep away from incompatible materials.

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 container tightly closed when not in use.
Incompatible materials: Not available.

7.3 Specific end use(s)
Intermediate. 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 ventilation. Use local exhaust where appropriate.
Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves. Protective clothing as appropriate.
- Respiratory protection: Use appropriate respiratory protection if ventilation is inadequate or exposure is possible.
- Hygiene measures: Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse.

## 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 |

| Property | Value |
|---|---|
| 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
Not available.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Not available.

10.4 Conditions to avoid
Heat, flames, ignition sources. Not available.

10.5 Incompatible materials
Not available.

10.6 Hazardous decomposition products
Not available.

## SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: For more Non-Human Toxicity Excerpts (Complete) data for 2,4-DIMETHYLPHENOL (16 total), please visit the HSDB record page. LD50 Rat dermal 1040 mg/kg
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: The low-molecular-weight phenols 2-methylol phenol, 4-methylol phenol, 2,4,6-trimethylol phenol, 3-methylol phenol, 2,4-dimethylol phenol, and 2,6-dimethylol phenol are contact sensitizers in resins based on phenol and formaldehyde. ... In patients hypersensitive to resins based on phenol and formaldehyde and methylphenol, it is for diagnostic, therapeutic and preventive reasons necessary to know their cross-reaction patterns, which this study was therefore designed to investigate. In patients with contact allergy to a resin based on phenol and formaldehyde and at least 1 methylphenol, additional patch testing was performed with 6 methylphenol and 13 chemically related compounds. The 19 substances were tested at equimolar concentrations and in serial dilutions. Investigations by high-performance liquid chromatography were carried out to exclude contamination as the cause of the patch test reactions. Probable cross-reacting substances were o-cresol, p-cresol,

salicylaldehyde, 2,4-dimethylphenol, and 2,6-dimethylphenol.
- Germ cell mutagenicity: Smokehouse smoke, which is used for flavoring meat products, was investigated for its mutagenic activity in the Salmonella typhimurium assay. Fractions free of polycyclic aromatic hydrocarbons but containing phenol compounds were the chief concern. One of the most abundantly occurring phenol compounds, 2,4-dimethylphenol, gave negative results when it was tested for mutagenicity at 5 concentrations up to 5,000 ug/plate, with and without S-9 mix, using five strains of Salmonella typhimurium.
- Carcinogenicity: Inadequate information to assess carcinogenic potential The trichlorophenols and 2,4-dimethylphenol may be carcinogens.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure
- Moderately toxic by ingestion and skin contact.

Symptoms related to the physical, chemical and toxicological characteristics
- Embryos of fathead minnows were more resistant to 2,4-dimethylphenol than were larval or juvenile life stages. Growth of 28 day old fish was the most sensitive indicator of stress during exposures to 2,4-dimethylphenol. Based on these effects, the established maximum acceptable toxicant concentration for fathead minnows in Lake Superior water lies between 1,970 and 3,110 ug/l for 2,4-dimethylphenol.

## SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Not available.

12.5 Results of PBT and vPvB assessment
Not available.

12.6 Endocrine disrupting properties
Not available.

12.7 Other adverse effects
Not 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.
Contaminated packaging: Dispose of as unused product in accordance with applicable 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.

## SECTION 16: Other information

SECTION 16: Other information

Product name: 2,4-Xylenol
Catalog no.: CS-E-00080
CAS no.: 105-67-9
Synonyms: Metacresol EP Impurity F
Supplier: Clearsynth Labs Ltd., Mumbai, India
Emergency phone: +91-22-245045900

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Revision date: Not available.

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