

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

Catalogue Number	CS-T-92592
Product Name	1-p-(Tolyloxy)-2,3-epoxypropane
CAS No.	2186-24-5
Category	Intermediate
Synonyms	2-[(4-Methylphenoxy)methyl]oxirane; 1,2-Epoxy-3-(4-methylphenoxy)propane; 1,2-Epoxy-3-(p-tolyloxy)propane; 1-(p-Methylphenoxy)-2,3-epoxypropane; 2,3-Epoxypropyl p-Tolyl Ether; 3-(4-Methylphenoxy)-1,2-epoxypropane; 4-Methylphenyl Glycidyl Ether; Adeka Glycilol ED 529; ED 529; Glycidyl 4-Methylphenyl Ether; Glycidyl p-Cresyl Ether; Glycidyl p-Methylphenyl Ether; Glycidyl p-Tolyl Ether; NSC 112255; [(4-Methylphenoxy)methyl]oxirane; p-Cresol Glycidyl Ether; p-Cresyl Glycidyl Ether; p-Methylphenol Glycidyl Ether; p-Methylphenyl Glycidyl Ether; p-Tolyl Glycidyl Ether; 2-p-Tolyloxymethyl-oxirane
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)
Serious eye damage/eye irritation (Category 2)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H341	Not available
H411	Toxic to aquatic life with long lasting effects.
H320	Not available
H372	Not available
H319	Causes serious eye irritation.

Precautionary Statement(s)

Code	Statement
P203	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Not available
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P318	Not available
P321	Specific treatment (see ... on this label).
P332+P317	If skin irritation occurs: Get medical help.
P333+P317	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P260	Not available
P264+P265	Not available
P270	Not available
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

P319	Get medical help if you feel unwell.
P337+P317	If eye irritation persists: Get medical help.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : 1-p-(Tolyloxy)-2,3-epoxypropane

CAS Number : 2186-24-5

Molecular Formula : C₁₀H₁₂O₂

Molecular Weight : 164.2

Parent Chemical : Bisoprolol

Synonyms : 2-[(4-Methylphenoxy)methyl]oxirane; 1,2-Epoxy-3-(4-methylphenoxy)propane;

1,2-Epoxy-3-(p-tolyloxy)propane; 1-(p-Methylphenoxy)-2,3-epoxypropane; 2,3-Epoxypropyl p-Tolyl Ether;

3-(4-Methylphenoxy)-1,2-epoxypropane; 4-Methylphenyl Glycidyl Ether; Adeka Glycilol ED 529; ED 529; Glycidyl

4-Methylphenyl Ether; Glycidyl p-Cresyl Ether; Glycidyl p-Methylphenyl Ether; Glycidyl p-Tolyl Ether; NSC 112255;

[(4-Methylphenoxy)methyl]oxirane; p-Cresol Glycidyl Ether; p-Cresyl Glycidyl Ether; p-Methylphenol Glycidyl Ether;

p-Methylphenyl Glycidyl Ether; p-Tolyl Glycidyl Ether; 2-p-Tolyloxymethyl-oxirane

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 SDS to medical personnel. Seek medical attention if symptoms persist.
- Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
- Skin contact: Remove contaminated clothing and shoes. Wash skin with plenty of water and soap. Seek medical attention if irritation develops or 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/effects, acute and delayed

- Not available.

4.3 Indication of 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 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 (SCBA) 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

- Evacuate unnecessary personnel. Ensure adequate ventilation.
- Avoid breathing vapors/mists and avoid contact with skin and eyes.
- Wear appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Avoid release to the environment. Prevent entry into drains, sewers, or waterways.

6.3 Methods and material for containment and cleaning up

- Contain spill. Absorb with inert material (e.g., sand, earth, vermiculite).
- Collect into suitable, labeled containers for disposal.
- Clean contaminated area with water and detergent as appropriate.

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 vapors/mists.
- Use only with adequate ventilation. Keep container tightly closed when not in use.
- Keep away from incompatible materials (see Section 10).

7.2 Conditions for safe storage, including any incompatibilities

- Store in a cool, dry, well-ventilated place.
- Keep container tightly closed and properly labeled.
- Protect from moisture and heat. Incompatibilities: Not available.

7.3 Specific end use(s)

- Intermediate. No further information 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: Use local exhaust ventilation or general ventilation to maintain exposure below applicable limits (if established).
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Wear protective gloves and protective clothing suitable for chemical handling.
- Respiratory protection: If ventilation is inadequate or exposure is possible, use appropriate respiratory protection.
- 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

Property	Value
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, sparks, open flames, and other ignition sources: Not available.

- Other conditions to avoid: 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: LC50 (rat) = 1,220 ppm/4h For more Human Toxicity Excerpts (Complete) data for CRESYL GLYCIDYL ETHER (7 total), please visit the HSDB record page.

- Skin corrosion/irritation: /LABORATORY ANIMALS: Acute Exposure/ Undiluted o-Cresyl glycidyl ether produced severe skin irritation at 24 hr, which progressed to necrosis by 14 days. Following a 4-hr semioccluded exposure o-cresyl glycidyl ether caused slight irritation to the skin with a complete recovery of the irritant effects within 7 days. /o-Cresyl glycidyl ether/ /LABORATORY ANIMALS: Acute Exposure/ Signs of intoxication /in rats/ were ataxia and general depression. Dermal exposure resulted in severe dermal irritation. /o-Cresyl glycidyl ether/

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

- Respiratory or skin sensitization: /Glycidyl ethers/ are primary skin and eye irritants and may cause sensitization. /Glycidyl ethers/ /Cresyl glycidyl ether and o-cresyl glycidyl ether/ are moderate to severe skin irritants and potent skin sensitizers ... slightly irritating to the eye.

- Germ cell mutagenicity: No data available.
- Carcinogenicity: No data available.
- 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

- LC50 Rat inhalation 1220 ppm/4 hr

Symptoms related to the physical, chemical and toxicological characteristics

- /SIGNS AND SYMPTOMS/ Cresyl glycidyl ether is a mild irritant and may cause dermatitis.

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.
- Incineration or disposal via a licensed waste contractor may be appropriate.
- Contaminated packaging: Dispose of as unused product unless cleaned and permitted by regulations.

SECTION 14: Transport information

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- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- 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

- Regulatory listings (e.g., TSCA, REACH, DSL, EINECS/ELINCS, ENCS, AICS, IECSC): Not available.
- Other regulations: Not available.

15.2 Chemical safety assessment

- No data available.

SECTION 16: Other information

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- Product name: 1-p-(Tolyloxy)-2,3-epoxypropane
- CAS No.: 2186-24-5
- Catalog No.: CS-T-92592
- Synonyms: 4-Methylphenyl Glycidyl Ether; Glycidyl p-Tolyl Ether; p-Cresyl Glycidyl Ether; and others.
- Recommended use: Intermediate.
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Disclaimer

- The information provided is believed to be accurate as of the date of preparation; however, no warranty is expressed or implied regarding its accuracy or completeness. The user is responsible for determining suitability for a particular purpose and for complying with applicable laws and regulations.

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