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

Catalogue Number	CS-T-44965
Product Name	Triclopyr
CAS No.	55335-06-3
Category	Pesticide Standards
Synonyms	Triclopyr 2-[(3,5,6-Trichloro-2-pyridinyl)oxy]acetic acid Acetic acid, [(3,5,6-trichloro-2-pyridinyl)oxy] Acetic acid, [(3,5,6-trichloro-2-pyridyl)oxy] 2-[(3,5,6-Trichloropyridinyl)oxy]acetic 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:

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

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	Not available
H400	Not available
H410	Not available
H401	Not available
H411	Toxic to aquatic life with long lasting effects.
H303	Not available
H316	Not available
H371	Not available

Precautionary Statement(s)

Code	Statement
P260	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P272	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+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.
P321	Specific treatment (see … on this label).
P330	Not available
P333+P317	Not available
P337+P317	If eye irritation persists: 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 regulatio
P308+P316	Not available
P332+P317	If skin irritation occurs: Get medical help.
P405	Store locked up.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Triclopyr
CAS Number : 55335-06-3
Molecular Formula : C7H4Cl3NO3
Molecular Weight : 256.5
Parent Chemical : Triclopyr
Synonyms : Triclopyr
2-[(3,5,6-Trichloro-2-pyridinyl)oxy]acetic acid
Acetic acid, [(3,5,6-trichloro-2-pyridinyl)oxy]
Acetic acid, [(3,5,6-trichloro-2-pyridyl)oxy]
2-[(3,5,6-Trichloropyridinyl)oxy]acetic 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. Get medical attention if symptoms occur or persist. Show this SDS to medical personnel.
Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.
Skin contact: Wash with plenty of soap and water. Seek medical attention if irritation develops.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Get 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 Suitable extinguishing media
Use extinguishing measures appropriate to local circumstances and the surrounding environment (e.g., water spray, dry chemical, foam, carbon dioxide).

5.2 Specific hazards arising from the chemical
May decompose under fire conditions to release 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. 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. Avoid contact with skin and eyes. Use appropriate personal protective equipment.

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

6.3 Methods and materials for containment and cleaning up
Contain spill. Collect using methods that minimize dust generation (e.g., dampen if compatible). Place in a suitable, labeled container for disposal. Clean contaminated area.

6.4 Reference to other sections
See Section 8 for exposure controls/personal protection 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 generating and breathing dust. Avoid contact with skin, eyes, and clothing. Wash 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: Not available.

7.3 Specific end use(s)
Pesticide standard / laboratory use. Not for food, drug, or household use.

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 airborne concentrations.
Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical goggles.
- Skin protection: Protective gloves. Protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate or dust is generated, use a suitable particulate respirator in accordance with applicable regulations.
- Hygiene measures: Wash hands and exposed skin 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
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available

Property	Value
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
Avoid dust formation. Avoid extremes of temperature. Other conditions to avoid: 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: Triclopyr is irritating to skin and eyes. One case report describes patient who ingested triclopyr and developed metabolic acidosis and coma with cardiovascular impairment. In male mice, triclopyr (480 mg/kg/day) caused single cell necrosis of the liver, significant increases in alkaline phosphatase, aspartate transaminase, and alanine transaminase, and enlargement of the liver with dark color. Centrilobular swelling and degeneration of hepatocytes were observed in a dose-dependent fashion at 120 mg/kg/day and above in male mice, along with mild increases in liver enzymes at 240 mg/kg/day. Degeneration of the proximal tubules of the kidneys of male and female rats was observed in increased incidence at 20 mg/kg/day and above for both sexes. LC50 (rat) > 256 ppm/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: In an Ames assay, the mutagenic potential of triclopyr was negative in Salmonella tester strains TA-1535, TA-1537, TA-1538, TA-98, and TA-100 in the absence and presence of metabolic activation. Short-term exposures (1 and 3 days) to Garlon and triclopyr in blood cells of Anguilla anguilla L using the comet assay showed nonspecific DNA damage at tested concentrations and exposure lengths; none of the conditions revealed significant levels of oxidative damage when net enzyme-sensitive sites were considered.

- Carcinogenicity: In a chronic toxicity/carcinogenicity study in mice, there were no compound-related tumors observed in male mice. Female mice had a significant increasing trend in mammary gland adenocarcinomas. Cancer Classification: Group D Not Classifiable as to Human Carcinogenicity
- Reproductive toxicity: Rats maintained on diets supplying 0, 3, 10, or 30 mg/kg/day over three generations exhibited no consistent treatment-related effects on reproductive performance, pregnancy, parturition, or neonatal survival.
- STOT-single exposure: No data available.
- STOT-repeated exposure: In male mice, centrilobular swelling and degeneration of hepatocytes were observed in a dose-dependent fashion at 120 mg/kg/day and above, with mild increases in liver enzymes at 240 mg/kg/day; at 480 mg/kg/day single cell necrosis of the liver, significant increases in alkaline phosphatase, aspartate transaminase, and alanine transaminase, and enlargement of the liver with dark color were reported. Degeneration of the proximal tubules of the kidneys of male and female rats was observed in increased incidence at 20 mg/kg/day and above for both sexes; kidney weight increases were reported in male rats at 50 mg/kg/day and in male and female rats at 250 mg/kg/day. In rhesus monkeys administered triclopyr by gavage (5 mg/kg/day for 28 days then 20 mg/kg/day for 102 days), creatinine, BUN, and inulin clearance were within the normal range. In dogs, PSP clearance studies demonstrated that triclopyr administration (5 mg/kg) can significantly decrease the percentage PSP excretion even following a single dose; the decrease was reversible and inversely related to plasma triclopyr concentration; findings suggest physiological competition for excretion and not toxicity.
- Aspiration hazard: No data available.

Likely routes of exposure
- Ingestion.

Symptoms related to the physical, chemical and toxicological characteristics
- Irritating to skin and eyes. Following ingestion: metabolic acidosis, coma with cardiovascular impairment; echocardiography and elevated Troponin T and CK MB with prolongation of QTc suggested direct myocardial toxicity.

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.
Waste classification: Not available.
Contaminated packaging: Dispose of as unused product unless cleaned and permitted by regulations.

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: Triclopyr
CAS No.: 55335-06-3

Catalog No.: CS-T-44965
Recommended use: Pesticide standard / laboratory use
Supplier: Clearsynth Labs Ltd., Mumbai, India
Emergency phone: +91-22-245045900

Revision date: Not available
Revision number: Not available

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