

## Chemical Safety Data Sheet MSDS / SDS

## [(3,5,6-trichloropyridin-2-yl)oxy]acetic acid SDS

Revision Date:2024-04-25 Revision Number:1

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name: [(3,5,6-trichloropyridin-2-yl)oxy]acetic acid

CAS: 55335-06-3

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: For R&amp;D use only. Not for medicinal, household or other use.

Uses advised against: none

**Company Identification**

Company: Chemicalbook.in

Address: 5 vasavi Layout Basaveswara Nilayam Pragathi Nagar Hyderabad, India -500090

Telephone: +91 9550333722

**SECTION 2: Hazards identification****Classification of the substance or mixture**

Acute toxicity - Category 4, Oral

Skin sensitization, Category 1

Eye irritation, Category 2  
Specific target organ toxicity - repeated exposure, Category 2  
Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1  
Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

### GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Warning

### Hazard statement(s)

H302 Harmful if swallowed  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H373 May cause damage to organs through prolonged or repeated exposure  
H410 Very toxic to aquatic life with long lasting effects

### Precautionary statement(s)

### Prevention

P264 Wash ... thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.

### Response

P301+P317 IF SWALLOWED: Get medical help.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of water/...  
P333+P317 If skin irritation or rash occurs: Get medical help.  
P321 Specific treatment (see ... on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P319 Get medical help if you feel unwell.  
P391 Collect spillage.

#### **Storage**

none

#### **Disposal**

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### **Other hazards which do not result in classification**

no data available

### **SECTION 3: Composition/information on ingredients**

#### **Substance**

Chemical name: [(3,5,6-trichloropyridin-2-yl)oxy]acetic acid

Common names and synonyms: [(3,5,6-trichloropyridin-2-yl)oxy]acetic acid

CAS number: 55335-06-3

EC number: 259-597-3

Concentration: 100%

### **SECTION 4: First aid measures**

#### **Description of necessary first-aid measures**

##### **If inhaled**

Fresh air, rest.

##### **Following skin contact**

Remove contaminated clothes. Rinse and then wash skin with water and soap.

##### **Following eye contact**

Rinse with plenty of water for several minutes (remove contact lenses if easily possible).

#### **Following ingestion**

Rinse mouth.

#### **Most important symptoms/effects, acute and delayed**

no data available

#### **Indication of immediate medical attention and special treatment needed, if necessary**

Skin decontamination. Skin contamination should be treated promptly by washing with soap and water. Contamination of the eyes should be treated immediately by prolonged flushing of the eyes with large amounts of clean water. If dermal or ocular irritation persists, medical attention should be obtained without delay. Other herbicides

### **SECTION 5: Firefighting measures**

#### **Suitable extinguishing media**

In case of fire in the surroundings, use appropriate extinguishing media.

#### **Specific hazards arising from the chemical**

Not combustible.

#### **Special protective actions for fire-fighters**

In case of fire in the surroundings, use appropriate extinguishing media.

### **SECTION 6: Accidental release measures**

#### **Personal precautions, protective equipment and emergency procedures**

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. Wash away remainder with plenty of water.

#### **Environmental precautions**

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. Wash away remainder with plenty of water.

#### **Methods and materials for containment and cleaning up**

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

### **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### **Conditions for safe storage, including any incompatibilities**

Keep in the dark.

### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

#### **Occupational Exposure limit values**

no data available

#### **Biological limit values**

no data available

#### **Appropriate engineering controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

#### **Individual protection measures, such as personal protective equipment (PPE)**

#### **Eye/face protection**

Wear safety spectacles.

#### **Skin protection**

Protective gloves.

#### **Respiratory protection**

Use local exhaust.

#### **Thermal hazards**

no data available

### **SECTION 9: Physical and chemical properties and safety characteristics**

Physical state: WHITE OR COLOURLESS FLUFFY CRYSTALS.

Colour: Fluffy, colorless solid

Odour: no data available

Melting point/freezing point: 148-150°C

Boiling point or initial boiling point and boiling range: 290°C

Flammability: Not combustible.

Lower and upper explosion limit/flammability limit: no data available

Flash point: 171°C

Auto-ignition temperature: no data available

Decomposition temperature: 208°C

pH: no data available

Kinematic viscosity:	no data available
Solubility:	In acetone 581, acetonitrile 92.1, hexane 0.09, toluene 19.2, dichloromethane 24.9, methanol 665, ethyl acetate 271 (all in g/l)
Partition coefficient n-octanol/water:	no data available
Vapour pressure:	1.26X10 <sup>-6</sup> mm Hg @ 25 deg C
Density and/or relative density:	1.669 g/cm <sup>3</sup>
Relative vapour density:	no data available
Particle characteristics:	no data available

## SECTION 10: Stability and reactivity

### Reactivity

Decomposes on heating and under the influence of UV light. This produces toxic and corrosive fumes including hydrogen chloride (see ICSC 0163) and nitrogen dioxide (see ICSC 0930).

### Chemical stability

no data available

### Possibility of hazardous reactions

Decomposes on heating and under the influence of UV light. This produces toxic and corrosive fumes including hydrogen chloride (see ICSC 0163) and nitrogen dioxide (see ICSC 0930).

### Conditions to avoid

no data available

### Incompatible materials

no data available

#### **Hazardous decomposition products**

When heated to decomposition it emits toxic fumes of chloride ion and nitric oxides.

### **SECTION 11: Toxicological information**

#### **Acute toxicity**

Oral: LD50 Rat (male) oral 729 mg/kg

Inhalation: LC50 Rat inhalation >256 ppm/4 hr

Dermal: no data available

#### **Skin corrosion/irritation**

no data available

#### **Serious eye damage/irritation**

no data available

#### **Respiratory or skin sensitization**

no data available

#### **Germ cell mutagenicity**

no data available

#### **Carcinogenicity**

Cancer Classification: Group D Not Classifiable as to Human Carcinogenicity

#### **Reproductive toxicity**

no data available



### **STOT-single exposure**

May cause mechanical irritation.

### **STOT-repeated exposure**

no data available

### **Aspiration hazard**

A nuisance-causing concentration of airborne particles can be reached quickly when dispersed.

## **SECTION 12: Ecological information**

### **Toxicity**

Toxicity to fish: LC50 Rainbow trout 117 mg/l/96 hr

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

### **Persistence and degradability**

**AEROBIC:** Under aerobic soil metabolism conditions, triclopyr, at 1 ppm, degraded with half-lives of 8 and 18 days in silty clay loam and silt loam soils, respectively(1). The non-volatile degradates observed during the study were 3,5,6-trichloro-2-pyridinol (TCP) and 3,5,6-trichloro-2-methoxypyridine (TMP)(1); they were not persistent (max concns of 26 and 8%, respectively, were seen after <30 days of incubation)(1). The ultimate degradate was carbon dioxide (at 300 days post-treatment, approx 70 and 80% of the applied radioactivity in the silt loam and silty clay soils, respectively)(1). Triclopyr degraded slowly (half-life = 142 days) in a silty clay soil:water system incubated aerobically for 30 days(1). The only degradate observed was 3,5,6-trichloro-2-pyridinol at <5% of the amount applied after 30 days(1). Triclopyr was applied to the top layer of a column packed with loam soil(1). Water, equivalent to 2.5 cm of precipitation was leached through the column every second day(1). After 54 days, residues of triclopyr were found in the 10-cm layers of the soil; the residues were triclopyr and the metabolites, 3,5,6-trichloro-2-pyridinol and 2-methoxy-3,5,6-trichloropyridine, accounting for 5,85, and 10%, respectively, of the total of the residues which, in turn, was equivalent to 65% of the amount applied to the top layers(1). No residues were detected in the lower soil layers(1).

### **Bioaccumulative potential**

An estimated BCF of 3 was calculated for triclopyr(SRC), using an estimated log Kow of 2.53(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is

low(SRC).

#### **Mobility in soil**

Koc values for triclopyr range from 1.5 to 134 at pH values of 5.0 to 7.7(1). According to a classification scheme(2), these Koc values suggest that triclopyr will have very high to high mobility in soil(SRC). Based on adsorption/desorption studies using sand, sandy loam, silt loam, and clay loam soils, unaged triclopyr was very mobile. Freundlich Kd values ranged from 0.165 to 0.975 ml/g(3); Kocs were 25-384 ml/g. Adsorption was not correlated with CEC or organic carbon content(3). Kd values for triclopyr on four soils ranged from 0.08 to 0.61 ml/g(4).

#### **Other adverse effects**

no data available

### **SECTION 13: Disposal considerations**

#### **Disposal methods**

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

### **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: no data available

IMDG: no data available

IATA: no data available

#### **UN Proper Shipping Name**

ADR/RID: no data available

IMDG: no data available  
IATA: no data available

**Transport hazard class(es)**

ADR/RID: no data available  
IMDG: no data available  
IATA: no data available

**Packing group, if applicable**

ADR/RID: no data available  
IMDG: no data available  
IATA: no data available

**Environmental hazards**

ADR/RID: Yes  
IMDG: Yes  
IATA: Yes

**Special precautions for user**

no data available

**Transport in bulk according to IMO instruments**

no data available

**SECTION 15: Regulatory information**

**Safety, health and environmental regulations specific for the product in question**

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

Listed.

**EC Inventory**

Listed.

**United States Toxic Substances Control Act (TSCA) Inventory**

Listed.

**China Catalog of Hazardous chemicals 2015**

Not Listed.

**New Zealand Inventory of Chemicals (NZIoC)**

Listed.

**(PICCS)**

Not Listed.

**Vietnam National Chemical Inventory**

Listed.

**IECSC)**

Not Listed.

**Korea Existing Chemicals List (KECL)**

Listed.

**SECTION 16: Other information**

**Abbreviations and acronyms**

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

### References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:  
<http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

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