

Safety Data Sheet

Issue Date: 16-Jan-2018

Revision Date: 22-Jan-2018

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Gharda Triclopyr Acid Technical

Other means of identification

SDS # GCI-008

Registration Number(s) EPA Reg. No. 93182-17
UNID No UN3077

Recommended use of the chemical and restrictions on use

Recommended Use Solid (powder) technical concentrate. For manufacture use in agriculture weed control products. Refer to label for further details.

Details of the supplier of the safety data sheet

Manufacturer Address

GHARDA CHEMICALS INTERNATIONAL INC.
760 Newtown-Yardley Road
Suite 110
Newtown, PA USA 18940
Website: www.ghardausa.com
For further information contact: 1 (215) 968-9474

Emergency Telephone Number

Emergency Telephone (24 hr) MEDICAL EMERGENCY (24 hr): PROPHARMA (866)-359-5660
TRANSPORTATION OR SPILL (24 hr): CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance White to buff amorphous powder

Physical state Solid

Odor Odorless

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Combustible Dust	

Signal Word

Warning

Hazard statements

Harmful if swallowed
Causes serious eye irritation
May cause an allergic skin reaction
May form combustible dust concentrations in air



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN: Wash with plenty of water and soap
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
3,5,6-TRICHLORO-2-Pyridinyl) oxyacetic acid	55335-06-3	98

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a poison control center or doctor for treatment advice.
Skin Contact	Take off contaminated clothing. Wash the skin immediately with soap and water. Call a poison control center or doctor for treatment advice.
Inhalation	Administer oxygen if breathing is difficult. Call a poison control center or doctor for further treatment advice.
Ingestion	Do NOT induce vomiting. Rinse mouth and drink plenty of water. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms and effects

Symptoms Harmful if swallowed. Causes serious eye irritation. May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire Dry chemical. Carbon dioxide (CO₂). Water spray. Regular foam.

Large Fire Water spray. Regular foam.

Unsuitable Extinguishing Media Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the Chemical

Dust can form an explosive mixture with air. Move containers from fire area if you can do so without risk.

For fires involving tanks: Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.

Explosion Data

Sensitivity to Static Discharge AVOID GENERATING DUST. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Collect contaminated fire extinguishing water separately.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Use personal protection recommended in Section 8. Keep unnecessary and unprotected people away from area of spill. Stay upwind. Do not touch or walk through spilled material. Avoid generating dust. Refer to Section 7, Handling, for additional precautionary measures.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up CALL EMERGENCY RESPONSE Telephone Number on Shipping Paper first.
 Small Dry Spill: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area
 Small Spill: Take up with sand or other non-combustible absorbent material and place into containers for later disposal
 Large Spill: Dike far ahead of liquid spill for later disposal. Cover powder spill plastic sheet or tarp to minimize spreading. Prevent entry into waterways, sewers, basements or confined areas. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid generation of dust. Avoid breathing dusts. Avoid contact with skin and eyes. Ensure that dust does not accumulate on surfaces.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in closed, properly labeled containers in a cool, ventilated area. Do not transfer contents to bottles or other unlabeled containers. Keep away from heat, open flames and oxidizing agents. Keep away from food, drink and animal feeding stuffs. Protect from direct sunlight. Protect from humidity and water. Store between 0°C and 30 °C.

Incompatible Materials Strong acids. Strong bases. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Explosion-proof general and local exhaust ventilation. Use explosion proof electrical equipment for very high dust levels. Ensure ventilation and dust-handling systems prevent the escape of dust into work areas and there is no leakage from equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly sealed goggles.

Skin and Body Protection Wear protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Wear protective clothing. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Respiratory Protection NIOSH approved respiratory protection for nuisance dusts. (Recommended). Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odor	Odorless
Appearance	White to buff amorphous powder	Odor Threshold	Not determined
Color	White to buff		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	3.97	
Melting Point/Freezing Point	150.5 °C / 302.9 °F	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Not determined	

Lower Flammability Limit	Not determined
Vapor Pressure	0.2 mPa @25 °C
Vapor Density	Not determined
Relative Density	1.85
Water Solubility	0.408 g/l
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	208 °C / 406 °F
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Dust can form an explosive mixture with air
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Strong acids. Strong bases. Oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes serious eye irritation.
Skin Contact	Avoid contact with skin.
Inhalation	Avoid inhalation of dust.
Ingestion	Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
3,5,6-TRICHLORO-2-Pyridinyl) oxyacetic acid 55335-06-3	= 2140 mg/kg (Rat) = 630 mg/kg (Rat)	> 3980 mg/kg (Rat) > 2 g/kg (Rabbit)	> 5.43 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause an allergic skin reaction.
Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

ATEmix (oral)	692 mg/kg (rat)
ATEmix (dermal)	>2000mg/kg (rat)

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Do not reuse empty containers.

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (triclopyr acid)
Hazard Class	9
Packing Group	III
Marine Pollutant	Yes.

IATA

UN/ID No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (triclopyr acid)
Hazard Class	9
Packing Group	III
Marine Pollutant	Yes

IMDG

UNID No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (triclopyr acid)
Hazard Class	9
Packing Group	III
Marine Pollutant	Yes

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
3,5,6-TRICHLORO-2-Pyridinyl) oxyacetic acid	X	X	X			Present		X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

EPA Pesticide Registration Number EPA Reg. No. 93182-17

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

SIGNAL WORD: WARNING

May be fatal if swallowed or inhaled. Causes substantial but temporary eye injury. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Do not breathe dust. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Warning	Warning
Acute toxicity - Oral	May be fatal if swallowed	Harmful if swallowed
Acute toxicity - Inhalation	May be fatal if inhaled	NA
Acute toxicity - Dermal	Harmful if absorbed through the skin	NA
Skin sensitization	NA	May cause an allergic skin reaction
Combustible dust	NA	May form combustible dust concentrations in air

16. OTHER INFORMATION

Additional Product Information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS	Health Hazards	Flammability	Physical hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

Issue Date: 16-Jan-2018
Revision Date: 22-Jan-2018
Revision Note: New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet