

MATERIAL SAFETY DATA SHEET

4-CHLOROPHENOXYACETIC ACID
CAROLINA BIOLOGICAL

Revised:11/23/09
Replaces:11/23/09
Printed:03/06/10

1. PRODUCT DESCRIPTION

Product Name: 4-Chlorophenoxyacetic Acid
Product Code(s): 19-8233
Size: 1L
Chemical Name: 4-Chlorophenoxyacetic Acid
CAS Number: 122-88-3
Formula: C₈H₇ClO₃
Synonyms: Tomatone
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Components:
4-Chlorophenoxyacetic Acid(CAS# 122-88-3)
TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: Irritating to eyes and lungs
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give some water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): N/A
NFPA Rating: None established
Extinguisher Media:
Use dry chemical, CO₂ or appropriate foam.
Flammable Limits in Air % by Volume: N/A
Autoignition Temperature: N/A
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: HCl produced on combustion

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6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store in a cool, dry area, away from heat and sources of ignition.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type): A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.
Ventilation: Use adequate general or local exhaust to keep dust levels as low as possible

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

| | |
|-----------------------------|------------------------|
| Molecular Weight: | 186.59 |
| Melting Point: | 156.5 °C |
| Boiling Point: | N/A |
| Vapor Pressure: | N/A |
| Vapor Density(Air=1): | N/A |
| Specific Gravity(H2O=1): | N/A |
| Percent Volatile by Volume: | N/A |
| Evaporation Rate(H2O=1): | N/A |
| Solubility in Water: | Soluble |
| Appearance and Odor: | White/Off-White powder |

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Excessive heat and light

Incompatibility(Materials to Avoid): Strong oxidizers and bases

Hazardous Decomposition Products: CO_x, HCl

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: orl-rat LD50: 850 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Not listed as a carcinogen

Conditions Aggravated by Overexposure: Preexisting sensitivity of eyes and skin.

Target Organs: N/A

Primary Route(s) of Entry: Inhalation, Ingestion, Skin and Eye contact.

12. ECOLOGICAL DATA

EPA Waste Numbers: N/A

13. DISPOSAL INFORMATION

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Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Non-regulated

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

| | SARA EHS | SARA Sec. 313 | CERCLA | RCRA |
|------------|----------|---------------|----------|--------|
| Product or | Sec. 302 | Chemicals | Sec. 103 | Sec. |
| Components | TPQ | Name Chemical | RQ lbs. | 261.33 |
| | | List Category | | |

| | | | | |
|------------------|----|----|----|----|
| 4-Chlorophenoxy- | No | No | No | No |
| acetic Acid | | | | |

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

NTP.....National Toxicology Program

OSHA.....Occupational Safety and Health Administration

PEL.....Permissible Exposure Limit

ppm.....parts per million

RCRA.....Resource Conservation and Recovery Act

SARA.....Superfund Amendments and Reauthorization Act

TLV.....Threshold Limit Value

TSCA.....Toxic Substances Control Act