# Material Safety Data Sheet 4-Chlorobenzoic acid, 99%

### ACC# 62719

## Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Chlorobenzoic acid, 99%

Catalog Numbers: AC159250000, AC159250010, AC159250250, AC159251000, AC159252500 Synonyms: PCBA; Benzoic acid, 4-chloro-; p-Carboxychlorobenzene; p-Chlorbenzoic acid; p-

Chlorobenzoic acid; Chlorodracylic acid

**Company Identification:** 

Acros Organics N.V. One Reagent Lane Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01 For emergencies in the US, call CHEMTREC: 800-424-9300

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
74-11-3	4-Chlorobenzoic acid	99	200-805-9

## Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: white to yellow crystalline powder.

**Caution!** Causes skin irritation. May be harmful if swallowed. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory system.

Target Organs: No data found.

### **Potential Health Effects**

**Eye:** Causes eye irritation. **Skin:** Causes skin irritation.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological

properties of this substance have not been fully investigated.

Inhalation: The toxicological properties of this substance have not been fully investigated. Causes

irritation of the mucous membrane and upper respiratory tract.

**Chronic:** No information found.

## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid imme diately.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: > 110 deg C (> 230.00 deg F) Autoignition Temperature: Not applicable. Explosion Limits, Lower: Not available.

**Upper:** Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

# Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

۱	Chemical Name	ACGIH	NIOSH	OSHA - Final PELs

4-Chlorobenzoic acid none listed none listed none listed

OSHA Vacated PELs: 4-Chlorobenzoic acid: No OSHA Vacated PELs are listed for this chemical.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye

and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

# Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder **Appearance:** white to yellow

**Odor:** odorless **pH:** Not available.

Vapor Pressure: 1.85103 mm Hg @25 deg (est)

Vapor Density: Not available. Evaporation Rate: Not available.

**Viscosity:** Not available. **Boiling Point:** Not available.

**Freezing/Melting Point:**240.00 - 242.00 deg C **Decomposition Temperature:**> 545 deg C

Solubility: soluble in hot water

Specific Gravity/Density: Not available.

Molecular Formula: C7H5ClO2 Molecular Weight: 156.57

# Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, excess heat, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizing agents, strong bases.

Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide, carbon dioxide, chloride

fumes.

Hazardous Polymerization: Has not been reported.

# Section 11 - Toxicological Information

RTECS#:

**CAS#** 74-11-3: DG4976010

**LD50/LC50:** CAS# 74-11-3:

Oral, mouse: LD50 = 1170 mg/kg; Oral, rat: LD50 = 1170 mg/kg;

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**Carcinogenicity:** 

CAS# 74-11-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found **Teratogenicity:** No information found

Reproductive Effects: No information found

Mutagenicity: No information found Neurotoxicity: No information found

Other Studies:

# Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** If released to soil or water, will exist mainly in the dissociated form under most environmental pHs. Hydrolysis and volatilization in soil and water not expected to be important. May slowly leach to groundwater, may be subject to biodegradation. Bioconcentration in aquatic organisms not expected to occur. Will exist mainly in the vapor phase in the ambient atmosphere. May be subject to reaction with photochemically produced hydroxyl radicals. Direct photolysis not a major environmental pathway.

Physical: No data available.

Other: None.

# Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

# Section 15 - Regulatory Information

### **US FEDERAL**

#### **TSCA**

CAS# 74-11-3 is listed on the TSCA inventory.

### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RO.

## **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

#### **Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

CAS# 74-11-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

# **European/International Regulations European Labeling in Accordance with EC Directives**

## Hazard Symbols:

ΧN

#### **Risk Phrases:**

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

### **Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

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### WGK (Water Danger/Protection)

CAS# 74-11-3: 2

Canada - DSL/NDSL

CAS# 74-11-3 is listed on Canada's NDSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List** 

## Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997 **Revision #6 Date:** 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.