# Material Safety Data Sheet

3-Chloro-2-Methylaniline, 99%

### ACC# 04639

## Section 1 - Chemical Product and Company Identification

MSDS Name: 3-Chloro-2-Methylaniline, 99%

Catalog Numbers: AC146490000, AC146491000, AC146495000

**Synonyms:** 3-Chloro-O-Toluidine; 3-Chlor-2-Toluidin.

Company I dentification:

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
87-60-5	3-Chloro-2-Methylaniline	99%	201-756-6

## Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: clear brown to red liquid.

**Caution!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May be harmful if swallowed. May cause central nervous system depression. May cause cardiac disturbances. May cause liver and kidney damage. May cause methemoglobinemia. **Target Organs:** Blood, kidneys, central nervous system, liver, cardiovascular system, blood forming organs.

#### **Potential Health Effects**

**Eye:** May cause eye irritation. **Skin:** May cause skin irritation.

**Ingestion:** May cause irritation of the digestive tract. May cause liver and kidney damage. May cause cardiac disturbances. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. May cause central nervous system depression.

Inhalation: May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death. May cause liver and kidney damage. May cause cardiac abnormalities. Inhalation at high concentrations may cause CNS depression and asphixiation. Chronic: May cause liver and kidney damage. May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate, unconsciousness and possible death.

### 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.

**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. 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 breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood.

**Antidote:** Methylene blue, alone or in combination with oxygen is indicated as a treatment in nitrite induced methemoglobinemia.

## 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. Containers may explode when heated. Combustible material; may burn but does not ignite readily. Runoff from fire control or dilution water may cause pollution.

**Extinguishing Media:** Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcoholresistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

**Flash Point:** > 112 deg C (> 233.60 deg F)

**Autoignition Temperature:** 565 deg C (1,049.00 deg F)

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. **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** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
3-Chloro-2-Methylaniline	none listed	none listed	none listed

**OSHA Vacated PELs:** 3-Chloro-2-Methylaniline: 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:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear brown to red

Odor: None reported. pH: Not available.

Vapor Pressure: .016 hPa @ 20 C

Vapor Density: 4.8

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 115 - 117 deg C @ 10.00mmHg

Freezing/Melting Point:2 deg C

Decomposition Temperature:> 300 deg C

**Solubility:** 4.5 g/l (20 c)

Specific Gravity/Density:1.1710g/cm3

Molecular Formula:C7H8CIN Molecular Weight:141.60

## 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: Oxidizing agents.

Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide,

carbon monoxide, carbon dioxide, nitrogen gas.

Hazardous Polymerization: Has not been reported.

## Section 11 - Toxicological Information

RTECS#:

CAS# 87-60-5: XU4760000

**LD50/LC50**: CAS# 87-60-5:

Oral, rat: LD50 = 574 mg/kg;

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Carcinogenicity:

CAS# 87-60-5: 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

No information available.

## 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:	CHLOROTOLUIDINES, LIQUID	CHLOROTOLUIDINES, LIQUID	
Hazard Class:	6.1	6.1	
UN Number:	UN3429	UN2239	
Packing Group:	Ш	III	

## Section 15 - Regulatory Information

### **US FEDERAL**

#### **TSCA**

CAS# 87-60-5 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 RQ.

### **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# 87-60-5 can be found on the following state right to know lists: Massachusetts.

#### 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 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

### **Safety Phrases:**

S 36/37 Wear suitable protective clothing and gloves.

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# 87-60-5: 2

#### Canada - DSL/NDSL

CAS# 87-60-5 is listed on Canada's DSL List.

#### Canada - WHMIS

not available.

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 #7 Date**: 11/20/2008

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.