

SILVER FERN CHEMICAL



Safety Data Sheet

o-Chloroaniline

SECTION 1: IDENTIFICATION

Product Name: o-Chloroaniline

CAS Number: 95-51-2

Chemical Name: o-Chloroaniline

Synonyms: 1-Amino-2-chlorobenzene; 2-Chloroaniline; 2-chloro-Benzenamine; Aniline, o-chloro

Uses:

Company

Silver Fern Chemical, Inc.
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Suite #C
Seattle WA 98109, USA

Business Contact

Customer Service: 1-866-282-3384
info@silverfernchemical.com

24 Hour Emergency Contact

Infotrac 800-535-5053
Outside USA & Canada 352-323-3500

SECTION 2: HAZARD IDENTIFICATION

Danger



Emergency Overview

OSHA Hazards

Target Organ Effect, Toxic by inhalation. Toxic by ingestion, Toxic by skin absorption

Target Organs

Blood, Kidney, Liver

GHS Classification

Hazard Statements:

H302 Harmful if swallowed.
H311 + H331 Toxic in contact with skin or if inhaled.
H401 Toxic to aquatic life.



Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing.

P311 Call a POISON CENTER or doctor/physician.

HMIS Classification

Health hazard: 4

Chronic Health Hazard: *

Flammability: 1

Physical hazards: 0

NFPA Rating

Health hazard: 4

Fire: 1

Reactivity Hazard: 0

Potential Health Effects**Inhalation** Toxic if inhaled. May cause respiratory tract irritation.**Skin** Toxic if absorbed through skin. May cause skin irritation.**Eyes** May cause eye irritation.**Ingestion** Toxic if swallowed**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

CAS #	Content (W/W)	Ingredients
95-51-2	-	2-Chloroaniline

Formula: C₆H₆ClN**Molecular Weight:** 127.57 g/mol**SECTION 4: FIRST AID MEASURES****If inhaled:** If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician**In case of skin contact:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a Physician**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous are**SECTION 5: FIRE FIGHTING MEASURES****Flash Point:** 98 °C (208 °F) - closed cup**Lower/Upper explosion limit:** 2.4 %(V)/ 14.2 %(V)

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment and clean up procedure: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal

Personal Precautions: Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection

Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment (PPE)

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves

Eye protection: Face shield and safety glasses

Body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place

General safety and hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: clear, liquid

Color: light yellow

Safety data

pH: no data available
Melting point: -2 - -1 °C (28 - 30 °F)
Boiling point: 208 - 210 °C (406 - 410 °F) - lit.
Flash point: 98 °C (208 °F) - closed cup
Ignition temperature: > 500 °C (> 932 °F)
Lower explosion limit: 2.4 %(V)
Upper explosion limit: 14.2 %(V)

Density: 1.213 g/cm³ at 25 °C (77 °F)
Water solubility: no data available
Partition coefficient: log Pow: 1.9
n-octanol/water
Relative vapor density 4.4 - (Air= 1.0)

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: no data available

Substances to avoid: Chloride gas acids, Acid chlorides, Acid anhydrides, Chloroformates, Strong oxidizing agents

Chemical Stability: Stable under recommended storage conditions

Decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Hydrogen

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Acute toxicity

LC50 Inhalation - rat - 4 h - 797 ppm

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Corneal damage. Behavioral: Tremor. Cyanosis

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity in vitro - mouse - lymphocyte

Genotoxicity in vitro - Hamster - Lungs

Mutation in mammalian somatic cells.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure (GHS)

no data available

Specific target organ toxicity - repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation Toxic if inhaled. May cause respiratory tract irritation.

Ingestion Toxic if swallowed.

Skin Toxic if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

Signs and Symptoms of Exposure

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis.

Onset may be delayed 2 to 4 hours or longer. Liver injury may occur. Kidney injury may occur

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish LC0 - Leuciscus idus (Golden orfe) - 2 mg/l - 48 h
LC50 - Pimephales promelas (fathead minnow) - 5.7 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 1.8 mg/l - 48 h
and other aquatic invertebrates

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 150 mg/l - 72 h

Persistence and degradability: Biodegradability

Bioaccumulation: Danio rerio (zebra fish) - 96 h
Bioconcentration factor (BCF): 15.3

Mobility in soil: no data available

PBT and vPvB assessment
no data available

Other: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US)

UN-Number: 2019 Class: 6.1 Packing group: II
Proper shipping name: Chloroanilines, liquid
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN-Number: 2019 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: CHLOROANILINES, LIQUID
Marine pollutant: No

IATA

UN- Number: 2019 Class: 6.1 Packing group: II
Proper shipping name: Chloroanilines, liquid

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

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New Jersey Right To Know Components

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California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Further information: None

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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