1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 2-Chlorophenol
Product Number: 185779
Brand: Aldrich
Supplier: Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63135
USA
Telephone: +1 800-325-5832
Fax: +1 800-325-5832
Emergency Phone # (For both supplier and manufacturer): (314) 770 6555
Preparation Information: Sigma-Aldrich Corporation
Product Safety - Americas Region
1-800-521-6950

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards: Combustible Liquid
Target Organs: Central nervous system, Liver, Kidney
Other hazards which do not result in classification: Sore throat.

GHS Classification
Flammable liquids (Category 4)
Acute toxicity, Inhalation (Category 4)
Acute toxicity, Oral (Category 4)
Acute aquatic toxicity (Category 2)

GHS Label elements, including precautionary statements:
Signal word: Warning
Hazard statement(s):
H227: Combustible liquid
H302 + H312: Harmful if swallowed or in contact with skin
H332: Harmful if inhaled.
H401: Toxic to aquatic life.
Precautionary statement(s):
P260: Wear protective gloves/protective clothing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component | Concentration
--- | ---
2-Chlorophenol | 95.57-3
EC-No: 202-433-2
Index-No: 604-008-00-0

4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Make sure the area is clear of dangerous area.
If Inhaled: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability: In the presence of a source of ignition, the flash point is above the flash point. Keep away from heat, sparks, open flames.
Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Use water spray to cool unopened containers.
Personal precautions
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low 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.

Methods and materials for containment and cleaning up
Contact a hazardous waste professional before cleaning up. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe 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.
Stench.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment
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 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. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN (EU).

Skin and body protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: liquid, clear
Colour: light yellow

Safety data
pH: no data available
Melting point/freezing point: 8 °C (46 ºF) - lit.

Boiling point: 175 - 176 °C (347 - 349 ºF) - lit.
Flash point: 84,0 °C (147,2 ºF) - closed cup
Ignition temperature: no data available
Autoignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Vapour pressure: 1.3 hPa (1.0 mmHg) at 121.0 °C (248.8 ºF)
Density: 1.241 g/cm3 at 25 °C (77 ºF)
Water solubility: no data available
Partition coefficient: no data available
n-Octanol/water: log Pow: 2.32
Relative vapour density: no data available
Odour: no data available
Odour Threshold: no data available
Evaporation rate: no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
Heat, flames and sparks.

Materials to avoid
Acid chlorides, Acid anhydrides, Oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions - Carbon oxides, Hydrogen chloride gas
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50
LD50 Oral - rat - 670.0 mg/kg
Inhalation LD50
Dermal LD50
Other information on acute toxicity
no data available

Skin corrosion/Irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available
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

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Swelling, inflammation and edema of the larynx, pharynx, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, swelling of the face, eyes, ears, pharynx, larynx, laryngitis, Shortness of breath. Headache, Nausea, Vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: SK2625000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish: LC50 - Lepomis macrochirus (Bluegill) - 5.7 - 12 mg/l - 96.0 h

LC50 - Pimephales promelas (Fathead minnow) - 6 - 16 mg/l - 96.0 h

LC50 - Carassius auratus (Goldfish) - 10.7 - 15.2 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 6.30 - 17.80 mg/l - 24 h

EC50 - Daphnia magna (Water flea) - 7.91 mg/l - 48 h

EC50 - Pseudokirchneriella subcapitata (green algae) - 70.00 mg/l - 96 h

EC50 - Chlorella vulgaris (Fresh water algae) - 170.00 mg/l - 96 h

Persistence and degradability

no data available

Bioaccumulative potential

Bioaccumulation Lepomis macrochirus (Bluegill) - 26 d

Bioconcentration factor (BCF): 214

Mobility in soil

no data available

PET and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2021 Class: 6.1 Packing group II

Proper shipping name: Chlorophenol, liquid

Repackable Quantity (RQ): 100 lbs

Marking: Not applicable

Poison Inhalation Hazard: No

IMDG

UN number: 2021 Class: 6.1 Packing group III

EMS-No: F-A, S-A

Marine pollutant: No

IATA

UN number: 2021 Class: 6.1 Packing group III

Proper shipping name: Chlorophenol, liquid

15. REGULATORY INFORMATION

OSHA Hazards

Combustible Liquid

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

The following components are subject to reporting levels established by SARA Title III, Section 313.

CAS No: 95-57-8

Revision Date: 2007-03-01

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right To Know Components

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**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.

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**16. OTHER INFORMATION**

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.