

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : Chloramphenicol

Product Number : C0378

Brand : Sigma

Company : Sigma-Aldrich Chemie GmbH
Riedstrasse 2
D-89555 STEINHEIM

Telephone : +49 89-6513(0)-1444

Fax : +49 7329-97-2319

Emergency Phone # : +49 7329-97-2323

E-mail address : euratechserv@sial.com

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

May cause cancer. May cause sensitization by inhalation and skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : D(-)-threo-2,2-Dichloro-N-[beta -hydroxy-alpha -
(hydroxymethyl)-beta -(4-nitrophenyl)ethyl]acetamide
D(-)-threo-2-Dichloroacetamido-1-(4-nitrophenyl)-1,3-
propanediol
D-threo-2,2-Dichloro-N-[beta -hydroxy-alpha -(hydroxymethyl)-
4-nitrophenethyl]acetamide
Chloromycetin

Formula : C₁₁H₁₂Cl₂N₂O₅

Molecular Weight : 323,13 g/mol

CAS-No.	EC-No.	Index-No.	Classification	Concentration
Chloramphenicol				
56-75-7	200-287-4	-	T, R45	-

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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. 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.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. 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.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Handling**

Avoid exposure - obtain special instructions before use. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) 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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

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

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	crystalline
Colour	light yellow

Safety data

pH	no data available
Melting point	149 °C
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	soluble

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Light.

Materials to avoid

acids, Acid chlorides, Acid anhydrides, Oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 2.500 mg/kg

Irritation and corrosion

no data available

Sensitisation

May cause allergic skin reaction.

May cause allergic respiratory reaction.

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Chronic exposure

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

IARC: Group 2A - Probably carcinogenic to humans (Chloramphenicol)

Genotoxicity in vitro - rat - Liver

DNA damage

Genotoxicity in vivo - mouse - Intraperitoneal

Cytogenetic analysis

Laboratory experiments have shown mutagenic effects.

Signs and Symptoms of Exposure

Nausea, Headache, Vomiting

Potential Health Effects

Inhalation	May cause respiratory tract irritation. May be harmful if inhaled. May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.
Target Organs	Blood, Bone marrow, Nerves., Liver,

Additional Information

RTECS: AB6825000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 345 mg/l - 48 h
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Further information on ecology

no data available

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.

14. TRANSPORT INFORMATION

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazard symbols

T

Toxic

R-phrases(s)

R45 May cause cancer.
R42/43 May cause sensitization by inhalation and skin contact.

S-phrases(s)

S53 Avoid exposure - obtain special instructions before use.
S22 Do not breathe dust.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Restricted to professional users.

16. OTHER INFORMATION

Further information

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