



SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Chloramphenicol Solution, 10 mg/mL
PRODUCT NUMBER: C2010
COMPANY INFO: *PhytoTechnology Laboratories*[®]
PO Box 12205, Shawnee, KS 66282-2205
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories*[®] are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H225 – Flammable liquids (Category 2)
H350 – Carcinogenicity (Category 1B)

GHS Label elements, including hazard and precautionary statements:



Signal Word: **Danger**

Hazard Statements:

H225 – Highly flammable liquid and vapor.
H350 – May cause cancer.

Precautionary Statements:

P202 – Do not handle until all safety precautions have been read and understood.
P210 – Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 – IF exposed or concerned: Get medical advice/ attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: [R-(R*,R*)]-2,2-Dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide
CAS No.: 56-75-7
Formula: C₁₁H₁₂Cl₂N₂O₅
Molecular Weight: 323.13 g/mol

Ingredient	CAS Number	Percent	Hazardous
Chloramphenicol	56-75-7	1%	No exposure limits established by OSHA or ACGIH
Ethanol	64-17-5	99%	ACGIH: 1000 ppm TWA; OSHA: 1000 ppm TWA; 1900 mg/m ³ TWA

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride gas, chlorine

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary. Contact a licensed professional waste disposal service to dispose of this material.

7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid incompatible substances. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.
Incompatibilities:	Strong oxidizing agent
Recommended Storage Temperature:	-20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	No data available
ACGIH's Threshold Limit Values (TLVs):	Ethanol – 1000 ppm
Engineering Controls:	Handle in accordance to general industrial hygiene and safety practice.
Personal Protective Equipment (PPE):	
Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	Appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless, Clear Liquid
pH:	No data available
Solubility:	Miscible with Water
Melting Point:	150-152 °C
Vapor Density:	No data available
Vapor Pressure:	No data available
Odor:	Mostly odorless
Odor Threshold:	No data available
Viscosity:	No data available
Relative Density:	No data available
Evaporation Rate:	No data available
Initial Boiling Point and Boiling Range:	No data available
Flammability (solid, gas):	No data available
Partition coefficient: n-octanol/water):	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Flash Point (Closed Cup):	No data available
Flammable Limits:	Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	Will not occur

Conditions to Avoid: Incompatibles, dust generation, may be sensitive to light
Incompatibles Materials: Strong oxidizing agents, acids, acid chlorides, acid anhydrides
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride gas, chlorine

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 2500
LD₅₀ (IV-Rat)(mg/Kg): 171
LD₅₀ (Oral-Mouse)(mg/Kg): 1500

Carcinogenicity: NTP: Reasonably anticipated to be a human carcinogen (Chloramphenicol)
IARC: Group 2A - Chloramphenicol
Z List: No
OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with Overexposure: Irritation, itching, gastrointestinal upset, allergic reaction, dermatitis, nausea, vomiting, possible mutagenic and tumorigenic effects, effects on reproduction, blood pressure changes, cancer, anemia, bleeding, bone marrow changes

Specific Target Organ Toxicity: Single Exposure: No data available
Repeated Exposure: No data available

Target Organs: Liver, kidney, blood

Medical Conditions Aggravated By Exposure: None identified

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: AB6825000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Ethanol Solutions
Hazard Class: 3 Packing Group: II
UN/NA: 1170
Marine Pollutant: No
Poison Inhalation Hazard: No

International:

IMDG: Proper Shipping Name: Ethanol Solutions
 Hazard Class: 3 Packing Group: II EMS-No.: F-E, S-D
 UN/NA: 1170
 Marine Pollutant: No

IATA: Proper Shipping Name: Ethanol Solutions
 Hazard Class: 3 Packing Group: II
 UN/NA: 1170

15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard, Fire Hazard

Massachusetts Right to Know Components: CAS No.: 64-17-5 Ethanol
 CAS No.: 56-75-7 Chloramphenicol

Pennsylvania Right to Know Components: CAS No.: 64-17-5 Ethanol
 CAS No.: 56-75-7 Chloramphenicol

New Jersey Right to Know Components: CAS No.: 64-17-5 Ethanol
 CAS No.: 56-75-7 Chloramphenicol

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.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	2	*	3	0
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	2	3	0	

*Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

PhytoTechnology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 4 Jun 15