



Issuing Date 01-May-2009

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Revision Number 4

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

Product Name Chloramphenicol

Product Code(s) 0230

Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Recommended Use inhibits protein synthesis at peptidyltransferase

Synonyms ACETAMIDE,
2,2-DICHLORO-N-(BETA-HYDROXY-ALPHA-(HYDROXYMETHYL)-P-NITROPHENETHYL)- * ACETAMIDE, 2,2-DICHLORO-N-(2-HYDROXY-1-(HYDROXYMETHYL)-2-(4-NITROPHENYL)ETHYL)-, (R-(R*,R*))- * ALFICETYN * AMBOFEN * AMPHENICOL * AMPHICOL * AMSECLOR * ANACETIN * AQUAMYCETIN * AUSTRACOL * BIOCETIN * BIOPHENICOL * CAF (PHARMACEUTICAL) * CAM * CAP * CATILAN * CHEMICETIN * CHEMICETINA * CHLOMIN * CHLOMYCOL * CHLORAMEX * CHLORAMFENIKOL (CZECH) * CHLORAMPHENICOL * D-CHLORAMPHENICOL * D-THREO-CHLORAMPHENICOL * D-(-)-THREO-CHLORAMPHENICOL * CHLORAMSAAR * CHLORASOL * CHLORA-TABS * CHLORICOL * CHLORNITROMYCIN * CHLOROAMPHENICOL * CHLOROCAPS * CHLOROCID * CHLOROCIDE * CHLOROCIDIN C * CHLOROCIDIN C TETRAN * CHLOROCID S * CHLOROCOL * CHLOROJECT L * CHLOROMAX * CHLOROMYCETIN * CHLOROMYCETNY (POLISH) * CHLORONITRIN * CHLOROPTIC * CHLORO-25 VETAG * CHLOROVULES * CIDOCETINE * CIPLAMYCETIN * CLORAMFICIN * CLORAMICOL * CLORAMIDINA *

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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Carcinogen 1B Toxic to Reproduction 1B Skin Sensitizer 1 Respiratory Sensitizer
1

Signal Word Danger



Hazard Statements H303 - May be harmful if swallowed H350 - May cause cancer H360 - May damage fertility or the unborn child H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements P201 - Obtain special instructions before use P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Chloramphenicol	EEC No. 200-287-4	Not available	56-75-7	95-100	R43

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products Carbon oxides, Nitrogen oxides (NOx), Hydrogen Chloride gas.

Explosion Data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge

Not sensitive.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

Light Sensitive. Handle in accordance with good industrial hygiene and safety practice.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light.

Incompatible Products

Acids. Acid chlorides. Anhydrides. Strong oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures

Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to almost white	
Odor	No information available	
Odor Threshold	No information available	
Decomposition Temperature °C	No information available	
Freezing Point	No information available	
Initial Boiling Point	No information available	
Physical State	Powder	
pH	No data available	
Flash Point	Not determined	
Autoignition Temperature	No data available	
Boiling Point/Range	No data available	
Melting Point/Range	151 °C	
Flammability Limits in Air	Upper No data available	Lower No data available
Explosive Properties	No information available	
Oxidizing Properties	No information available	
Evaporation Rate	No data available	
MMHG @ 37.8 C	No data available	
Vapor Density	No data available	
Specific Gravity	No data available	
Solubility	Soluble	
Partition Coefficient (n-octanol/water)	No data available	
Viscosity	No information available	

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Acids. Acid chlorides. Anhydrides. Strong oxidizers.
Conditions to Avoid	Protect from light.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride gas.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Sensitizer.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Chloramphenicol	2500 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity Suspected carcinogen. Suspected teratogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chloramphenicol		Group 2A	Reasonably Anticipated	X

Target Organ Effects Blood, Bone marrow, Liver.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of contents/container in accordance with local regulation.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Chloramphenicol	Not applicable	Not applicable	Not applicable	027	Not applicable	Not applicable
Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II	
Chloramphenicol 56-75-7 (95-100)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

International Inventories

TSCA Complies
 EINECS/ELINCS Complies
 ENCS Does not Comply
 IECSC Complies
 KECL Does not Comply
 PICCS Complies

AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Chloramphenicol	56-75-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chloramphenicol	X		X		X

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 01-May-2009

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Revision Note
No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS