

SAFETY DATA SHEET

1. Identification

Product identifier	Chloramphenicol Palmitate	
Other means of identification		
Catalog number	1107300	
CAS number	530-43-8	
Chemical name	Hexadecanoic acid, 2-[(2,2-dichloroacetyl)amino]-3-h [R-(R*,R*)]-	hydroxy-3-(4-nitrophenyl) propyl ester,
Recommended use	Specified quality tests and assay use only.	
Recommended restrictions	Not for use as a drug. Not for administration to huma	ans or animals.
Manufacturer/Importer/Supplier/ Manufacturer	Distributor information	
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States	
Telephone	RS Technical Services 301-816-8129	
Website	www.usp.org	
E-mail Emergency phone number	RSTECH@usp.org CHEMTREC within US & 1-800-424-9300 Canada	
	CHEMTREC outside US & +1 703-527-3887 Canada	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Sensitization, skin Cate	egory 1
	Carcinogenicity Cate	egory 2
	Reproductive toxicity Cate	egory 2
	Specific target organ toxicity, repeated Cate exposure	egory 2 (bone marrow, blood)
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	May cause an allergic skin reaction. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs (bone marrow, blood) through prolonged or repeated exposure.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.	

Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Pharmacologically active material.

3. Composition/information on ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
Chloramphenicol Palmitate		530-43-8	100
4. First-aid measures			

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Blood disorders. Reproductive system effects. Bone marrow depression. Pharmacologically active material. Occupational exposure may cause physiological effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Treatment of chloramphenicol overdose may include the following: Administer activated charcoal as a slurry and saline cathartic. Obtain a baseline CBC and ABG (or venous blood gas), and monitor patient closely. Administer vitamins B6 and B12 for neuritis. For hypothermia, rewarm slowly using blankets, warm IV fluids, and/or warmed mist inhalation. Manage anaphylaxis by conventional symptomatic and supportive measures. For toxic bone marrow effects, L-phenylalanine has been administered experimentally. To remove chloramphenicol from plasma, use charcoal hemoperfusion. Hemodialysis is not effective in removing chloramphenicol.
General information	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
5. Fire-fighting measures	
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Methods and materials for
containment and cleaning upFor waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up.
Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface
thoroughly to remove residual contamination.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage		
Precautions for safe handling	As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.	
Conditions for safe storage, including any incompatibilities	Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.	
8. Exposure controls/pers	onal protection	
Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.	
Skin protection		
Hand protection	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.	
Other	Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.	
Respiratory protection	Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.	

9. Physical and chemical properties

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	Appearance	Appearance descriptions are general information and not specific to any USP lot.
	Physical state	Solid.
	Form	Crystalline powder.
	Color	White.
	Odor	Faint odor.
	Odor threshold	Not available.
	рН	Not available.
	Melting point/freezing point	188.6 - 203 °F (87 - 95 °C)
	Initial boiling point and boiling range	Not available.
	Flash point	Not available.
	Evaporation rate	Not available.
	Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits		
	Flammability limit - lower (%)	Not available.
	Flammability limit - upper (%)	Not available.
	Explosive limit - lower (%)	Not available.
	Explosive limit - upper (%)	Not available.
	Vapor pressure	1 mm Hg at 20 ° C

Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble.
Solubility (other)	Acetone: Freely soluble. Alcohol: Sparingly soluble. Chloroform: Freely soluble. Ether: Soluble.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Chemical family	Phenethylamine derivative.
Molecular formula	C27H42Cl2N2O6
Molecular weight	561.54 g/mol
Percent volatile	< 1 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Acid chlorides. Acid anhydrides. Oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Knowledge about health hazard is incomplete.
Skin contact	May cause an allergic skin reaction.
Eye contact	Knowledge about health hazard is incomplete.
Ingestion	Based on information from therapeutic use, this material may cause: Bone marrow suppression. Blood disorders.
Symptoms related to the physical, chemical, and toxicological characteristics	Unusual bleeding or bruising. Gastrointestinal disturbances. Pale skin. Sore throat. Fever. Chills. Depression. Tiredness. Swollen abdomen. Dizziness. Shivering. Headache.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
Chloramphenicol Palmitate (CAS	530-43-8)	
Oral		
LD50	Mouse	2640 mg/kg
Skin corrosion/irritation	Knowledge about health hazard is incomplete.	
Serious eye damage/eye irritation	Knowledge about health hazard is incomplete.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Knowledge about health hazard is incomplete.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Knowledge about mutagenicity is incomplete.	
Carcinogenicity	Suspected of causing cancer.	

IARC Monographs. Overall I	Evaluation of Carcinogenicity
Not listed.	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1052)
Not regulated.	
US. National Toxicology Pro	gram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	Knowledge about health hazard is incomplete.
Specific target organ toxicity - repeated exposure	May cause damage to organs (bone marrow, blood) through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmacologically active material. Occupational exposure may cause physiological effects.
12. Ecological information	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal consideration	IS
Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

	user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local disposal regulations	Dispose of in accordance with local regulations. Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC CodeNot applicable.General informationIt is the shipper

It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Subs	stance List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency rele	ease notification
Not regulated.	
OSHA Specifically Regula	ated Substances (29 CFR 1910.1001-1052)

Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Respiratory or skin sensitization Carcinogenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure)	
SARA 313 (TRI reporting) Not regulated.		
her federal regulations		
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (is not known to contain any chemicals currently listed as carcinoger	
ernational Inventories		
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Country(s) or region	Inventory name	On inventory (yes/nd
Country(s) or region Australia	Inventory name Australian Inventory of Chemical Substances (AICS)	
	•	Ye
Australia	Australian Inventory of Chemical Substances (AICS)	Y
Australia Canada	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL)	Yi N N
Australia Canada Canada	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL)	Yi N N
Australia Canada Canada China	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical	On inventory (yes/no Ye N N Ye Ye
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*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

lssue date Revision date	12-06-2006 12-19-2018
Version #	04
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