

American Cyanamid

## AUREO S 700(R) GRANULAR MEDICATED PREMIX

MANUFACTURER'S NAME: AMERICAN CYANAMID CO.  
WAYNE, NEW JERSEY 07470  
EMERGENCY TELEPHONE: (201)-835-3100 (U.S.A.)  
MSDS NO.: AG00344-4  
CAS NO.: Mixture  
DATE: Feb 13, 1992

## PRODUCT IDENTIFICATION

TRADE NAME: Aureo S 700(R) Granular Medicated Premix - For Animal Feed  
SYNONYMS: Mixture of chlortetracycline, calcium complex and sulfamethazine in a calcium sulfate carrier  
CHEMICAL FAMILY: Not Applicable  
MOLECULAR FORMULA:  
C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>8</sub>  
C<sub>12</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>S  
MOLECULAR WGT.: 479.000 (Chlortetracycline)  
278.300 (Sulfamethazine)  
USAGE: Antibacterial

## WARNING STATEMENTS

CAUTION!  
Keep out of the reach of children.  
Avoid contact with eyes or skin.

## INGREDIENTS

COMPONENT	CAS. NO.	%	PEL/TLV
Chlortetracycline	57-62-5	7.70	10 mg/m <sup>3</sup>
Inerts		84.60	None Established
Sulfamethazine	57-68-1	7.70	10 mg/m <sup>3</sup>

REFERENCE: Chlortetracycline - American Cyanamid - 1984  
Inerts - None  
Sulfamethazine - American Cyanamid - 1983

## PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Brown granules and powder, mild fermentation odor.  
BOILING POINT: Not Applicable  
MELTING POINT: Not Applicable  
VAPOR PRESSURE: Not Applicable  
SPECIFIC GRAVITY: Not Applicable  
VAPOR DENSITY: Not Applicable  
% VOLATILE (BY VOL.): Negligible  
OCTANOL/H<sub>2</sub>O PARTITION COEF.: Not Available  
pH: >7 as suspension  
SATURATION IN AIR (BY VOL.): Not Available  
EVAPORATION RATE: Not Applicable  
SOLUBILITY IN WATER: Slight

## FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT: Not Applicable  
FLAMMABLE LIMITS (% BY VOL.): Not Applicable  
AUTOIGNITION TEMP.: Not Available  
DECOMPOSITION TEMP.: Not Available  
FIRE EXTINGUISHING MEDIA: This material will not burn or burns with difficulty. Use an extinguishing agent suitable for surrounding fires.  
FIRE CONTROL TACTICS: Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing.

Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent run-off. Use spray or fog - solid stream may cause spreading.  
Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section.  
Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water - if water enters a drainage system, advise the authorities downstream.  
Avoid heavy hose streams, airborne dusts may create an explosion hazard.

SPECIFIC HAZARDS - DUST: Chlortetracycline is a dust explosion hazard. All equipment must have explosion venting per NFPA 68-1978. All electrical wiring and equipment should meet the provisions of NFPA-70.

## NFPA HAZARD RATING

NFPA Rating Not Assigned

## REACTIVITY DATA

STABILITY: Stable  
CONDITIONS TO AVOID: None  
POLYMERIZATION: Will not occur  
CONDITIONS TO AVOID: None  
INCOMPATIBLE MATERIALS: No specific incompatibility  
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon and/or sulfur.

## HEALTH HAZARD INFORMATION

TOXICITY DATA AND EFFECTS OF OVEREXPOSURE: No toxicity data is available on this formulation.

The acute oral LD<sub>50</sub> for chlortetracycline hydrochloride salt is greater than 3000 mg/kg in both rats and mice. Chlortetracycline hydrochloride salt is also mildly irritating to the rabbit eye and skin.

CHRONIC: Recent National Toxicology Program (NTP) preliminary data reported thyroid tumors in groups of rats which received up to 2,400 parts per million (ppm) of sulfamethazine in their diet and in mice which received up to 4,800 ppm in their diet for two years. Preliminary NTP chronic study data do not demonstrate any human health hazard from the continued use of sulfamethazine products in any form in animals or in humans. However, Cyanamid will continue to assess the data and their relevance as the full studies become available.

## EMERGENCY AND FIRST AID PROCEDURES:

IF SWALLOWED: Drink large quantities of water. Induce vomiting by touching the back of the throat with fingers.

IF IN EYES: Flush eyes with copious amounts of tap water for at least 15 minutes while holding eyelids open. Get medical attention if irritation persists.

IF ON SKIN: Wash skin with plenty of soap and water.

IF INHALED: Remove subject to fresh air.

NOTES TO PHYSICIAN: It should be noted that this product is an oral antibiotic of broad spectrum and very low toxicity. It is readily excreted in the urine. Exposure (or therapeutic use) in pregnant women in the second and third trimesters is likely to cause a defect of the enamel organ of the teeth ranging from mottled discoloration to a defect in the enamel over the chisel surfaces of the teeth.

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## EXPOSURE CONTROL METHODS

During formulation of this product, the following good industrial hygiene practice is recommended:  
Provide adequate local ventilation and maintain a Permissible Exposure Limit (PEL) below the level recommended for the various components of the product. If dust concentrations exceed the recommended PEL, an approved dust respirator should be worn until engineering controls are achieved.  
Wear gloves and eye goggles when handling this material in an enclosed environment.  
For end-users, please refer to the product label for personal protective clothing/equipment.

## SPILL OR LEAK PROCEDURES

Wearing appropriate protective clothing and equipment (see "Exposure Control" section), shovel/sweep spilled material into covered containers for proper disposal (see "Waste Disposal" section) or reuse if possible.  
WASTE DISPOSAL: To avoid disposal, all attempts should be made to utilize the product completely, in accordance with its registered use.  
Follow all applicable Federal, State, Provincial, and Local regulations regarding waste management methods.

## SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Maintain good housekeeping to control dust accumulations.  
Not for use or storage in or around the home.  
Keep away from sources of ignition and protect from exposure to fire and heat.

## APPENDIX

AUREO S 700(R) is a registered trademark of the American Cyanamid Company  
The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.  
NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.  
LAST REVISION DATE: 8/2/91

## SOURCE AND DATE INFORMATION

SHEET NO.: AG00344-4  
DATE INFORMATION: Feb 13, 1992

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COMPAS Code: 15300141