pregnant women should exercise caution regarding exposure. It is also advisable for nursing mothers to exercise caution regarding exposure.

Chronic Effects General: May cause blood system effects. May cause allergic reactions. May cause conjunctivitis. Chronic Effects General: May cause blood system effects.

Carcinogenicity: Not listed by NTP, IARC, or OSHA.

Reproductive Toxicity: Chlortetracycline: Since this material may affect the developing fetus, females planning to have a child and pregnant women should exercise caution regarding exposure. It is also advisable for nursing mothers to exercise caution regarding exposure.

Sulfamethazine: Since this material may affect the developing fetus, females planning to have a child and pregnant women should exercise caution regarding exposure. It is also advisable for nursing mothers to exercise caution regarding exposure.

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name: AUREO S-700(R) G and AUREO S-700(R) CRUMBLIES.
Product Codes: 700141 1700142 1700145 / 700370 (700170).
South Africa: 700123
TSCA Status: All ingredients are on the TSCA Inventory.

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS
Ingredient Name | CAS Number | Concentration % |
-----------------|------------|-----------------|
Chlortetracycline | 57-62-5 | 7.7 |
Sulfamethazine | 57-68-1 | 7.7 |
Silicon Dioxide | 63231-67-4 | 0-5 |
Mineral Oil | 8042-47-5 | 0-5 |
Calcium Carbonate | 1317-65-3 | qa 100 |

SECTION 3. HAZARDOUS IDENTIFICATION
Physical State: Granular
Color: Brown
Odor: Mild fermentation odor
Possible dust explosion hazard based on information on related materials.

POTENTIAL HEALTH EFFECTS
Relevant Routes of Exposure: Inhalation, skin contact, eye contact, ingestion
Target Organs: Respiratory system, gastrointestinal system, hematopoietic / blood system, renal system, hepatic system, dermal system, ocular system, immune system, skeletal system.

Acute Effects
General: May cause mucous membrane irritation (inflammation). May cause gastrointestinal effects such as nausea, vomiting, diarrhea, constipation, cramps, and loss of appetite. May cause hepatic (liver) system effects. Signs and symptoms may include elevation of liver enzyme levels and jaundice (yellowing of the skin and eyes). May cause renal (kidney) system effects such as urine retention, increase or decrease in urine production, painful urination, and presence of blood in urine. May cause respiratory effects such as difficulty in breathing, coughing, wheezing, irritation (inflammation) and respiratory arrest. May cause musculoskeletal effects such as muscle weakness or pain and skeletal abnormalities. May cause allergic reactions.

Skin: May cause skin irritation. May cause skin drying, itching, peeling and rashes.
Eye: May cause eye irritation. May cause conjunctivitis.

SECTION 4. FIRST AID MEASURES
Inhalation: Remove to fresh air. If discomfort occurs or persists, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and plenty of water. If irritation occurs or persists, get medical attention. Wash clothing and shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water. If irritation occurs or persists, get medical attention. Wash clothing and shoes before reuse.

SECTION 5. FIRE FIGHTING MEASURES
Flash Point: Not applicable
Extinguishing Media: Water, carbon dioxide, dry chemical, foam

UNusual Fire and Explosion Hazards: Possible dust explosion hazard based on information on related materials. Toxic emissions may be given off in a fire. See "Decomposition Products" in "Section 10. Stability and Reactivity".

Fire Fighting Instructions: Wear NIOSH/MSHA approved positive pressure, self contained breathing apparatus and full protective turn out gear. Use caution in approaching fire. Remove containers of this material if it can be done safely. Use water to keep fire exposed containers cool.

SECTION 6. ACCIDENTAL RELEASE MEASURES
Spill Clean Up Procedures: Review "Section 3. Hazards Identification", and "Section 8. Exposure Controls/Personal Protection" before proceeding with the clean up. Shut off the source of the spill or leak if it is safe to do so. Eliminate possible ignition sources. Scoop or shovel spilled material into a suitable labeled open head drum. Secure the drum cover and move the container to a safe holding area. Clean spill area thoroughly.

Treatment and Disposal: Decontaminate all protective clothing and equipment. Dispose of in accordance with recommendations in "Section 13. Disposal Considerations".

Reporting Requirements: The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material.

In New Jersey, report all releases which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEFE Hotline (1-609-292-5560) and to local officials. State and local regulations vary and may impose additional reporting requirements.

SECTION 7. HANDLING AND STORAGE
Special Sensitivity: Exposure to the following may affect the integrity of this material: light.
Handling & Storage Precautions: Do not generate dust or expose to ignition sources. Ground and bond all transfer equipment. Milling/mixing/drying should be performed in devices equipped with explosion relief or suppression systems or under inert conditions. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. When handling, use proper personal protective equipment specified in Section 8. Wash thoroughly after handling. Keep container tightly closed when not in use. Store in light resistant containers.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS
Ventilation: General room ventilation is adequate unless the process generates airborne dust or fume.

PERSONAL PROTECTION
Respirator Type(s): Half face, negative pressure air purifying, toxic dust/mist/fume high efficiency filter.
Conditions for Use: Under normal conditions of use, respiratory protection is not expected to be necessary. Respiratory protection is recommended under excessively dusty conditions. OSHA considers effective engineering controls to be the primary means to control worker exposure. Respiratory protection should not substitute for feasible engineering controls. Whenever respiratory protection is used, a complete respirator program should be developed in accordance with OSHA Subpart I (29CFR1910.134) requirements.

Glove Materials: Any plastic or rubber glove.
Conditions for Use: Gloves are recommended if there is a potential for skin contact.

Skin Protection: None required under normal and foreseeable conditions of use. Consult the protective clothing manufacturer, supplier, and/or industrial hygienist.

Eye Protection: Safety goggles recommended.

EXPOSURE LIMITS
There are no exposure limits specified either for this material or for any of its ingredients.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder, granular
Color: Brown
Odor: Mild fermentation odor
Pure/Mixture: Mixture
pH: >7
H2O Solubility: Slightly soluble (0.1 -1% by weight)

Stability: Normally stable even underfire exposure conditions and not water reactive
Conditions to Avoid:
Light Dust accumulation
Airborne dust
Sources of ignition
Incompatibility - Materials to Avoid: Unknown
Decomposition Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride and sulfur oxides.
Polymerization: No
Conditions of Polymerization: Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Chlortetracycline:
Acute Oral, Single Dose, Rat: >3000 mg/kg
Summary: Acute oral LD50 (rat) is greater than 3000 mg/kg body weight in both rats and mice.

Chlortetracycline:
Acute Oral, Single Dose, Mouse: >5000 mg/kg
Summary: Acute oral LD50 (mouse) is 50 gm/kg body weight which classifies this material as non-toxic orally.

Governing Authority: International Maritime Organization

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information: No ecological data available on this material.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Recommendations: This material is suitable for incineration. These recommendations are based on the product as shipped. Use, processing, alteration, or contamination may affect these disposal recommendations. State, local, or site restrictions affecting the available proper disposal options may vary.

RCRA Waste #: Not regulated under RCRA

Empty Containers: Empty containers must be triple rinsed prior to disposal, recycling, or reuse.

SECTION 14. TRANSPORTATION INFORMATION

Enforcement Agency: US Department of Transportation
Country/Community: USA
Proper Ship. Name: Non-regulated

Enforcement Agency: International Air Transport Association
Country/Community: International
Proper Ship. Name: Non-regulated

Enforcement Agency: International Maritime Organization
Transportation Mode: Ocean
Country/Community: International
Proper Ship. Name: Non-regulated

SECTION 15. REGULATORY INFORMATION

Law/Regulation: Hazardous Chemical Reporting: Community Right-To-Know 40CFR370
Common Name: SARA Title III Section 312 - Hazardous Chemical Inventory

Enforcement Agency: Environmental Protection Agency (EPA)
Governing Authority: USA
Criteria Met: Acute, Fire

Law/Regulation: Safe Drinking Water and Toxic Enforcement Act of 1986 Proposition 65
Common Name: Prop 65

Enforcement Agency: California Environmental Protection Agency
Governing Authority: California, USA
Criteria Met: Formulation contains a member of the tetracyclines which are known to the State to cause reproductive toxicity.
SECTION 16. OTHER INFORMATION

Additional Information: NFPA RATING: These ratings are based on NFPA Code 704 and are intended for use by emergency personnel to determine the immediate hazards of a material.
- Health: 1
- Fire: 1
- Reactivity: 0

APPROVAL INFORMATION
Preparer: Kathy Steiger
Approver: Regulatory Affairs
Approval Date: 05/02/00
Previous Approval Date: 01/24/96
Reason For Issue: Change in ownership and product code

The information presented on this MSDS is, to the best of our knowledge, accurate and reliable. It is provided in good faith without warranty or acceptance of any liability on the part of Alpharma. It is the responsibility of the user to evaluate the relevance and completeness of this information for their application and to determine the safety, suitability and status under applicable regulations relating to this product or byproducts arising out of their process.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES: although preparer and owner have taken reasonable care in the preparation of this document, we extend no warranties and make no representation as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each user should make a determination as to the suitability of the information for their particular purpose(s). A request has been made to the manufacturer to approve the contents of this material safety data sheet. Upon receipt of any changes a new MSDS will be made available.

COMPAS Code: 27200180