

----- MATERIAL SAFETY DATA SHEET -----

Sanofi

DI-METHOX SOLUBLE POWDER

SECTION I

MANUFACTURER'S NAME: SANOFI ANIMAL HEALTH, INC.
 2116 8TH AVENUE SOUTH
 FORT DODGE, IA 50501
 EMERGENCY PHONE: (515) 576-4225
 DATE PREPARED: 5-29-91
 CHEMICAL NAME AND SYNONYMS: Sulfadimethoxine Soluble Powder
 TRADE NAME: Di-Methox Soluble Powder
 FORMULA: C12H14N4O4S

SECTION II - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & % OSHA PEL ACGIH TLV
 Common Names (Hazardous
 Components 1% or greater;
 Carcinogen 0.1% or greater)

Sulfadimethoxine	90-100*	N/A	N/A
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OTHER LIMITS RECOMMENDED:

(These data indicate that sulfamethazine (Chemically related to Sulfadimethoxine) induces cancer when ingested by animals) "Chronic Toxicity and Carcinogenesis study on Sulfamethazine in B6C3F1 Mice," Food and Chemical Toxicology, 27 (7), pp. 455-463 (1989) by N.A. Littlefield, et.al.
 "Chronic Toxicity/Carcinogenicity Studies of Sulfamethazine in Fisher 344/N Rats: Two Generation Exposure," Food and Chemical Toxicology, 28 (3), pp 157-167 (1990) by N.A. Littlefield, et.al.

Preservatives	0-10*	N/A	N/A
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OTHER LIMITS RECOMMENDED: orl-rbt LD50: 7,000 mg/kg

*Above components are a Trade Secret.

Non-Hazardous Ingredients	100
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TOTAL

SECTION III - PHYSICAL DATA

BOILING POINT (deg F): N/A
 VAPOR PRESSURE (mm Hg): N/A
 VAPOR DENSITY (AIR = 1): N/A
 SOLUBILITY IN WATER: Complete
 SPECIFIC GRAVITY (H2O = 1): N/A
 PERCENT VOLATILE BY VOLUME (%): N/A
 EVAPORATION RATE (Butyl Acetate): N/A
 APPEARANCE AND ODOR: White to slightly off white fine granular powder

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): N/A
 FLAMMABLE LIMITS: N/A
 LOWER:
 UPPER:
 EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam.
 SPECIAL FIRE FIGHTING PROCEDURES: Firefighter should use self contained breathing apparatus and turn out gear.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: This material, like most material in powder form, is capable of creating a dust explosion.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N/A
 EFFECTS OF OVEREXPOSURE: Harmful if swallowed. May cause cyanosis (blue-gray coloring of skin and lips caused by lack of oxygen). Exposure can cause: nausea, headache and vomiting. Other effects include fever, drowsiness and allergic skin reaction. May be harmful by inhalation or skin absorption. May cause skin irritation.
 EMERGENCY AND FIRST AID PROCEDURES: If ingested, wash out mouth with water. Call a physician. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Wash contaminated clothing before reuse.

SECTION VI - REACTIVITY DATA

STABILITY: Stable.
 CONDITIONS TO AVOID:
 INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents, bases, reducing agents.
 HAZARDOUS DECOMPOSITION PRODUCT(S): Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.
 HAZARDOUS POLYMERIZATION: Will not occur.
 CONDITIONS TO AVOID:

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
 WASTE DISPOSAL METHOD: Incineration or chemical waste landfill in accordance with local, state, or Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA Approved respirator
 VENTILATION:
 LOCAL EXHAUST: Should be provided
 MECHANICAL (General): Yes
 SPECIAL:
 OTHER: Use with adequate ventilation
 PROTECTIVE GLOVES: Chemical resistant gloves
 EYE PROTECTION: Goggles
 OTHER PROTECTIVE EQUIPMENT: Safety shower and eye bath

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store in cool, dry place.
 OTHER PRECAUTIONS: Keep tightly closed. Hygroscopic.

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