

SAFETY DATA SHEETS

This SDS packet was issued with item:

078549690

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078085475 078099508 078420773 078464167 078472133 078551400 078565003 078565011 078578259 078695020
078770033 078804398 078804406 078842766 078842774 078917095 078917096 078917097 078917098 078917099
078917100 078917101 078917102 078917103 078917104 078925520

MATERIAL SAFETY DATA SHEET

Macleod Pharmaceuticals, Inc.

UNIPRIM POWDER FOR HORSES

IDENTITY (As Used on Label and List): Uniprim Powder For Horses

SECTION I

MANUFACTURER'S NAME: MACLEOD PHARMACEUTICALS, INC.
2600 CANTON COURT, SUITE C
FORT COLLINS, CO 80525
EMERGENCY TELEPHONE NUMBER:
TELEPHONE NUMBER FOR INFORMATION: (970) 482-7254
DATE PREPARED: 07/15/10

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components

(Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	% (optional)
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2, 4-Diamine -5- (3, 4, 5-trimethoxybenzyl) pyrimidine; Trimethoprim (TMP), LD50-7000 mg/kg
Cas. No. [738-70-5]
Other Limits Recommended:
N(1)-2-pyrimidinylsulfanilimide; Sulfadiazine (SDZ),
Cas. No. [68-35-9]
Other Limits Recommended:

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR PRESSURE (mm Hg.): N/A
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H2O = 1): N/A
MELTING POINT: Limestone = 825 deg C, TMP = 199-203 deg C, SDZ = 252-256 deg C
EVAPORATION RATE (Butyl Acetate = 1):
SOLUBILITY IN WATER: Limestone - Negligible, TMP = 40 mg/100 mL, SDZ = 13 mg/100 mL
APPEARANCE AND ODOR: Off white odorless powder

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): N/A
FLAMMABLE LIMITS: N/A
LEL: N/A
UEL: N/A
EXTINGUISHING MEDIA: Water or Foam
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing equipment with full face piece, operated in positive pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Concentrated TMP dust may present a dust explosion hazard. Eliminate source of ignition.

SECTION V - REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Heat above 1500 deg F
INCOMPATIBILITY (Materials to Avoid): Strong oxidizing agents, strong acids, Fluorine, Ammonium Salts
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Toxic fumes of NOx, Oxides, Carbon Monoxide, Carbon Dioxide.
HAZARDOUS POLYMERIZATION: Will Not Occur
CONDITIONS TO AVOID: N/A

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

INHALATION? Yes
SKIN? Only through open wounds
INGESTION? Yes

HEALTH HAZARDS (Acute and Chronic): Acute at extremely high concentrations with possible coughing and difficult breathing. Chronic effects above the TLV, chronic cough and bronchitis.

CARCINOGENICITY: Studies indicate (see attachment) that Sulfamethazine (chemically related to Sulfadiazine) induces cancer when ingested by animals.

NTP?
IARC MONOGRAPHS?
OSHA REGULATED?

SIGNS AND SYMPTOMS OF EXPOSURE: Erythema, Eye and/or respiratory tract irritation. Possible nausea, possible hypersensitization.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Persons with existing respiratory disease may be aggravated by overexposure.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Move person to fresh air.
INGESTION: Give large amounts of water.
HYPERSENSITIVITY: Requires immediate medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Carefully sweep up spilled material and wipe area clean.
WASTE DISPOSAL METHOD: Dispose of waste in accordance with all Federal, state and local regulations. Avoid introduction into ecological systems.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in air tight container. Avoid exposure to light.
OTHER PRECAUTIONS: Avoid breathing dust. Avoid dust accumulation. Avoid contact with eyes.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type): NIOSH/MSHA approved respiratory protection.

VENTILATION:

LOCAL EXHAUST: Recommended
MECHANICAL (General): Recommended
SPECIAL: N/A
OTHER: N/A

PROTECTIVE GLOVES: Rubber recommended for direct contact.

EYE PROTECTION: MSHA or OSHA approved safety goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Protective apparel as required to avoid skin exposure.

WORK/HYGIENIC PRACTICES: Wash body after work with material is complete.

APPROVED BY: G. Parrinello

REPRESENTING: Macleod Pharmaceuticals, Inc.

DATE: 07/15/10

SECTION 1: Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **UNIPRIM® (Powder for Horses)**
- Product Part Number(s): **UP200, UP375, UP400, UP1125, UP1200, UP2000, AUP200, AUP375, AUP400, AUP1200, AUP2000, AUP400-CAN**
- Brands: Macleod, NeogenVet®

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For control of bacterial infections during treatment of acute strangles, respiratory tract infections, acute urogenital infections, wound infections, and abscesses in horses.
CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.
- Uses advised against: Do not use in horses intended for human consumption.

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.
Lexington, Kentucky 40511
USA
- Telephone: 859/254-1221 • 800/525-2022
- Email: inform@neogen.com

1.4 Emergency telephone number

- Emergency Telephone: Chemtrec: 1 (800) 424-9300
Outside USA and Canada: +1 (703) 527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (29 CFR 1910.1200)

- Skin irritation, Cat. 2, Eye irritation. Cat. 2A, Sensitization, respiratory, Cat. 1, Sensitization, skin, Cat. 1, Specific target organ toxicity (single exposure), Cat. 3

Classification (WHMIS 2015 HPR)

- Skin irritation, Cat. 2, Eye irritation. Cat. 2A, Sensitization, respiratory, Cat. 1, Sensitization, skin, Cat. 1, Specific target organ toxicity (single exposure), Cat. 3

Additional information: For full text of Hazard statements: see Section 16

2.2 Label elements



GHS07



GHS08

- Signal Word: Danger
- Symbols: GHS07, GHS08
- Hazard phrases
 - Causes skin irritation.
 - Causes serious eye irritation.
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 - May cause an allergic skin reaction.
 - May cause respiratory tract irritation.
- Precautionary Phrases:
 - Wash hands thoroughly after handling.
 - Wear protective gloves/eye protection/face protection.
 - Avoid breathing dust.
 - In case of inadequate ventilation, wear respiratory protection.
 - Contaminated work clothing must not be allowed out of the workplace.
 - Wear protective gloves.
 - If on skin: Wash with plenty of water.

SECTION 2: Hazards identification (continued)

- Precautionary Phrases (continued):
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Take off contaminated clothing and wash it before reuse.
 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If eye irritation persists: Get medical advice/attention.
 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 - If experiencing respiratory symptoms: Call a poison center/doctor.
 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- May be harmful if swallowed through prolonged or repeated exposure of large quantities.

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

This product is a mixture of the substances listed below with the addition of non-hazardous materials

Chemical	Concentration	CAS No.	H-Statements	Symbols
Sulfadiazine	33.3%	68-35-9	H302, H315, H317, H319, H334, H335	GHS07, GHS08
Trimethoprim	6.7%	738-70-5	Not classified	n/a

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General
 - In case of doubt, or when symptoms persist, seek medical attention.
 - Like any other chemical, this product should be treated with care, respect, and common sense.
- Contact with skin
 - Wash affected area with plenty of soap and water.
 - Take off contaminated clothing and wash it before reuse.
 - If skin irritation or rash occurs: Get medical advice/attention.
- Contact with eyes
 - If substance has gotten into eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If eye irritation persists: Get medical advice/attention.
- Ingestion
 - Rinse mouth with water (do not swallow).
 - Never make an unconscious person vomit or drink fluids.
 - If medical advice is needed, have product container or label at hand.
- Inhalation
 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 - If experiencing respiratory symptoms: Call a poison center or doctor.

4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed.

- Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use water spray, foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- See Section 10.

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus, if necessary.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products

- May include oxides of carbon, oxides of nitrogen, oxides of sulfur

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Avoid raising dust.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses.
- Avoid scattering in the environment.

6.3 Methods and material for containment and cleaning up

- Sweep up and shovel.
- Place in sealable container.
- Seal containers and label them.
- Seek expert advice for removal and disposal of all contaminated materials and wastes.

6.4 Reference to other sections

- See Section 7 for storage. For disposal, see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities

- Store at or below 25°C (77°F).
- Keep out of reach of children.

7.3 Specific end use(s)

- For control of bacterial infections during treatment of acute strangles, respiratory tract infections, acute urogenital infections, wound infections, and abscesses in horses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
Calcium carbonate	471-34-1	TWA	15 mg/m ³ (total); 5 mg/m ³ (resp)	USA-OSHA Table Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m ³ (total); 5 mg/m ³ (resp)	USA-NIOSH Recommended Exposure Limits

SECTION 8: Exposure controls/personal protection (continued)

8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear an approved NIOSH N95 dust mask
- Wear protective gloves according to the concentration and amount of dangerous substance at the specific workplace.
- Wear safety glasses approved to standard for ANSI Z87, according to the concentration and amount of dangerous substance at the specific workplace.
- Wear suitable protective clothing in accordance with good industrial hygiene and safety practices in the event of prolonged exposure to bulk quantities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Powder
- Odor: Odorless or apple scent
- pH: Not applicable
- Melting point/Range: Not determined
- Boiling Point/Range: Not applicable
- Flashpoint: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: TMP=40 mg/100mL, SDZ=13 mg/100mL
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: Product is solid
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- May react with incompatible materials.

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Store at or below 25°C (77°F).

10.5 Incompatible materials

- Strong oxidizing agents, strong acids, fluorine, ammonium salts

10.6 Hazardous Decomposition Products

- May include oxides of carbon, oxides of nitrogen, oxides of sulfur
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- No experimental test data available for mixture
- ATEmix = 3053 mg/kg
- Contact with skin
 - Causes skin irritation.
 - May cause an allergic skin reaction.
- Contact with eyes
 - Causes severe eye irritation.
- Ingestion
 - May be harmful if swallowed through prolonged or repeated exposure of large quantities.
- Inhalation
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 - May cause respiratory tract irritation.
- Carcinogenicity
 - Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
 - Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
 - Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
 - No evidence of mutagenic effects.
- Teratogenicity
 - No evidence of teratogenic effects.

SECTION 12: Ecological information

12.1 Toxicity

- This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Other Adverse Effects

- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

- Disposal should be in accordance with local, state, national, or international regulations.
- Do not discharge into drains or the environment, dispose to an approved waste disposal facility.
- Do not reuse empty containers.

SECTION 14: Transport information

14.1 UN Number

- Not classified as hazardous for transport

14.2 UN Proper Shipping Name

- Not applicable

14.3 Transport hazard class(es)

- Not applicable

14.4 Packing group

- Not applicable

14.5 Environmental hazards

- Not Classified

SECTION 14: Transport information (continued)

14.6 Special precautions for user

- Not Classified

14.7 Domestic Surface Transport (US DOT)

- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.8 International Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.9 Ocean/Sea (IMO/IMDG)

- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.10 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- The labeling requirements of the Federal Food, Drug, and Cosmetic Act differ from the classification criteria and hazard information required for safety data sheets and for workplace labels under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Following is the hazard information as required on the drug label:

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.

KEEP OUT OF REACH OF CHILDREN

FOR ANIMAL USE ONLY

Warning: Do not use in horses intended for human consumption.

- ANADA # 200-033, Approved by FDA

15.2 United States Regulatory Information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312

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

SECTION 15: Regulatory information (continued)

15.3 Canadian Regulatory Information

- This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR). The labelling may differ subject to the requirements of the Food and Drugs Act (FDA).
- WHMIS Classification: Exempt – Registered product (DIN 02320835)
- Inventory Status
 - Domestic Substances List (DSL) Listed
 - Non-Domestic Substances List (NDSL) Not listed

SECTION 16: Other information

Document Number: SDS-0001, UNIPRIM

Date of Preparation: March 10, 2016

Revision: Rev. 1

Replaces: November 4, 2015

Text not given with phrase codes where they are used elsewhere in this safety data sheet: H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation.

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.