

SAFETY DATA SHEETS

This SDS packet was issued with item:

078082673

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

078082681

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078907786

MATERIAL SAFETY DATA SHEET

| Section I – Product Information | | | |
|------------------------------------|---------------------|---------------------|--|
| Product Name or Identity: | TRI-HIST® GRANULES | | |
| Manufacturer's Name: | Neogen Corporation | Emergency Phone No. | 859 254 1221 |
| | 944 Nandino Blvd. | Fax No.: | 859 255 5532 |
| | Lexington, KY 40511 | e-mail: | inform@neogen.com |
| Date Prepared or Revised: 11/15/05 | | | |

| Section II – Hazardous Ingredients / Identity Information | | | |
|--|--|---|-----------------------------------|
| Hazardous Components (Specific Chemical Identity: Common Names) | OSHA PEL (Permissible Exposure Limits) | ACGIH TLV (Threshold Limit Value) | Toxicity Data LD ₅₀ |
| PSEUDOEPHEDRINE | | | . |
| PYRILAMINE | | | |
| | | | |
| | | | |

| Section III – Physical Characteristics | |
|--|--|
| Boiling Point:: | Specific Gravity (H ₂ O = 1): |
| Vapor Pressure (mm Hg.): | Melting Point: |
| Vapor Density (AIR = 1): | Evaporation Rate (Butyl Acetate = 1): |
| Solubility in Water: | |
| Appearance and Odor: SOLID | |

| Section IV – Fire and Explosion Hazard Data | |
|--|--|
| Flash Point (<i>Method Used</i>): Not applicable | Flammable Limits: LEL (Lower Explosive Limit) - N/A UEL (Upper Explosive Limit) - N/A |
| Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM | |
| Special Fire Fighting Procedures: USE SELF-CONTAINED BREATHING APPARATUS, AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. | |
| Unusual Fire and Explosion Hazards: EMITS TOXIC FUMES UNDER FIRE CONDITIONS | |

| Section V – Reactivity Data | | | |
|--|----------------|---|--|
| Stability | Unstable | | Conditions to Avoid: PROTECT FROM LIGHT, AVOID CONTACT WITH STRONG OXIDIZING AGENTS. AVOID CONTACT WITH BASES. |
| | Stable | X | |
| Incompatibility (<i>Materials to Avoid</i>): | | | |
| Hazardous Decomposition or Byproducts: BURNING CAN PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES AND HYDROGEN CHLORIDE. | | | |
| Hazardous Polymerization | May Occur | | Conditions to Avoid: N/A |
| | Will Not Occur | X | |

| Section VI – Health Hazard Data | | | |
|---|--|---|-----------------|
| Route(s) of Entry: | Inhalation? | Skin? | Ingestion? |
| Health Hazards (Acute and Chronic) | | | |
| Carcinogenicity: NTP? NOT REPORTED (National Toxicology Program) | | IARC Monographs? (International Agency for Research in Cancer) | OSHA Regulated? |
| Signs and Symptoms of Exposure: | | | |
| Medical Conditions Generally Aggravated by Exposure: HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. IRRITANT TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. CAUSES IRRITATION TO THE EYES AND KIN. PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN INDIVIDUALS. | | | |
| Emergency / First Aid Procedures | Ingestion: WASH OUT MOUTH IS PERSON IS CONSCIOUS. OBTAIN MEDICAL ATTENTION | | |
| | Inhalation: REMOVE THE EXPOSED PERSON TO FRESH AIR AND SUPPORT BREATHING, IF NECESSARY. OBTAIN MEDICAL ATTENTION | | |
| | Eye Contact: IMMEDIATELY FLUSH EYES THOROUGHLY WITH FRESH WATER. REMOVE CONTACT LENSES, IF ANY. SEEK MEDICAL ATTENTION | | |
| | Skin Contact: REMOVE CONTAMINATED CLOTHING AND WASH THE AFFECTED SKIN WITH SOAP AND WATER. | | |

| Section VII – Precautions for Safe Handling and Use |
|---|
| Accidental Release Measures: WEAR SUITABLE PROTECTIVE EQUIPMENT TO PREVENT INHALATION, INGESTION AND SKIN OR EYE CONTACT. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RASING DUST. WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. |
| Waste Disposal Method: OBSERVE LOCAL, STATE AND FEDERAL RULES ON THE PROPER DISPOSAL OF HAZARDOUS MATERIALS. |
| Handling and Storing: KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY PLACE. AVOID CONTACT WITH THE EYES AND SKIN. SEE SECTION VIII |
| Other Precautions: |

| Section VIII – Control Measures | | |
|--|-----------------------|-----------------|
| Respiratory Protection (Specify Type): | | |
| Ventilation | Local Exhaust: | Special |
| | Mechanical (General): | Other |
| Protective Gloves: | | Eye Protection: |
| Other Protective Clothing or Equipment: | | |
| Work / Hygienic Practices: DO NOT BREATHE DUST. DO NOT GET IN EYES OR ON THE SKIN OR CLOTHING. AVOID PROLONGED EXPOSURE. WASH HANDS AFTER USE. | | |

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.

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

1.1 Product identifier

- Product Name: **Tri-Hist® Granules**
- Product Part Number(s): **08874**
- Brands: NeogenVet®

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

- Use of the substance/preparation: For use in horses as a histamine antagonizing preparation.
CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.
- Uses advised against: Not for use in horses intended for food. Use only as directed. See label cautions.

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)

- Specific target organ toxicity (single exposure), Cat. 3

Classification (WHMIS 2015 HPR)

- Specific target organ toxicity (single exposure), Cat. 3

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

2.2 Label elements



GHS07

- Signal Word: Warning
- Symbols: GHS07
- Hazard phrases
May cause respiratory irritation.
- Precautionary Phrases
Avoid breathing dust.
Use only outdoors or in a well-ventilated area.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center or doctor if you feel unwell.
Store locked up in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local, state, national, or international regulations.

2.3 Other hazards

- May be mildly irritating to skin and eyes.
- Keep out of reach of children.

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 |
|---------------------|---------------|-----------|------------------------|---------|
| Pseudoephedrine HCl | 1-5% | 345-78-8 | H302, H315, H319 | GHS07 |
| Pyrimamine Maleate | 5-10% | 7447-40-7 | H302, H315, H319, H335 | GHS07 |

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.
If used as directed, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
- Contact with skin
Remove contaminated clothing.
Wash affected area with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Contaminated clothing should be laundered before reuse.
- Contact with eyes
If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
Irrigate eyes thoroughly while lifting eyelids.
Seek medical advice if necessary.
- 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, remove victim to fresh air and keep comfortable for breathing.
Call a poison center or doctor/physician if you feel unwell.

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.
- Possible side effects include CNS stimulation (nervousness, excitation) or sedation, temporary anhidrosis, inappetance, incoordination, and weakness.

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 carbon oxides.

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 releasing to 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.
- Use only outdoors or in a well-ventilated area.
- 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 a temperature between 15-30°C (59-86°F).
- Store locked up in a well-ventilated place.
- Keep lid tightly closed when not in use.
- Keep out of reach of children.

7.3 Specific end use(s)

- For use in horses as a histamine antagonizing preparation.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- This product contains no substances with occupational exposure limit values.

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: Yellow granular powder
- Odor: Slight earthy odor
- pH: Not applicable
- Melting Point/Range: Not determined
- Boiling Point/Range: Not applicable

SECTION 9: Physical and chemical properties (continued)

- 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: No information available
- 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

- No information available

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

- Avoid contact with moisture.

10.5 Incompatible materials

- None known

10.6 Hazardous Decomposition Products

- None known

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- No experimental test data available for mixture
- ATEmix = 10,204 mg/kg (oral)
- Contact with skin
 - May cause redness and irritation in sensitive individuals.
- Contact with eyes
 - May cause redness and irritation in sensitive individuals.
- Ingestion
 - Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
- Inhalation
 - May cause respiratory 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

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 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
For horses only.
Not for use in horses intended for food.
 - NDC: 59051-8874-6

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 |

Toxic Substance Control Act (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

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
- Inventory Status

| | |
|-------------------------------------|------------|
| Domestic Substances List (DSL) | Listed |
| Non-Domestic Substances List (NDSL) | Not listed |

SECTION 16: Other information

Document Number: SDS-0013, Tri-Hist

Date of Preparation: March 10, 2016

Revision: Rev. 1

Replaces: November 18, 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. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

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