1 Identification

· Product identifier
  · Trade name: Pennchlor SP-250
  · Product description
    Type B Medicated Article (Premix) - For use in the manufacture of medicated animal feeds.

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Pharmgate
    Address: 14040 Industrial Rd.
    Omaha, NE 68144
    Phone: (402) 330-6000
    Fax: (402) 330-6004
  · Emergency telephone number: (800) 832-8303

2 Hazard(s) identification

· Classification of the substance or mixture
  
  !
  GHS07

  Skin Irrit. 2  H315  Causes skin irritation.
  STOT SE 3  H335  May cause respiratory irritation.

  Eye Irrit. 2B  H320  Causes eye irritation.

· Label elements
  · GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms
    !
    GHS07

· Signal word Warning

· Hazard-determining components of labeling:
  Magnesium-Mica
  Calcium Carbonate
  Sulfamethazine

· Hazard statements
  Causes skin and eye irritation.
  May cause respiratory irritation.

· Precautionary statements
  Avoid breathing dust/fume/gas/mist/vapors/spray
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves.
  Wash thoroughly after handling.
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Specific treatment (see on this label).
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Call a poison center/doctor if you feel unwell.

(Contd. on page 2)
Trade name: Pennchlor SP-250

If skin irritation occurs: Get medical advice/attention. 
If eye irritation persists: Get medical advice/attention. 
If on skin: Wash with plenty of water. 
Take off contaminated clothing and wash it before reuse. 
Store locked up. 
Store in a well-ventilated place. Keep container tightly closed. 
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FIRE</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>Description</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium-Mica</td>
<td>12251-00-2</td>
<td>Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320</td>
<td>36.0%</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320</td>
<td>0.2-57.1%</td>
</tr>
<tr>
<td>Sulfamethazine</td>
<td>57-68-1</td>
<td>Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320</td>
<td>4.4%</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>8042-47-5</td>
<td>0.0-4.0%</td>
<td></td>
</tr>
</tbody>
</table>

4 First-aid measures

Description of first aid measures

After inhalation: In case of unconsciousness, place patient securely on side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist, consult doctor.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture: No further relevant information available.
Trade name: Pennchlor SP-250

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  - Ensure adequate ventilation.
  - Dispose of the collected material according to regulations.

Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- Precautions for safe handling: No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- Control parameters
  - Components with occupational exposure limits:
    471-34-1 Calcium Carbonate
    - PEL: Long-term value: 15* 5** mg/m³
      - *total dust **respirable fraction
    - REL: Long-term value: 10* 5** mg/m³
      - *total dust **respirable fraction
    - TLV: TLV withdrawn
    8042-47-5 Mineral Oil
    - ACGIH TLV: Short-term value: 10 mg/m³
    - Long-term value: 5 mg/m³
    - OSHA PEL: Long-term value: 5 mg/m³

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      - Keep away from foodstuffs, beverages and feed.
      - Immediately remove all soiled and contaminated clothing.
      - Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection: Tightly sealed goggles

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
  - Appearance:
    - Form: Meal
    - Color: Brown
  - Odor: No data available
  - Odor threshold: Not determined.
  - pH-value: Not applicable.
  - Change in condition:
    - Melting point/Melting range: Not determined.
    - Boiling point/Boiling range: 828 °C (1522 °F)
  - Flash point: 544 °C (1011 °F)
  - Flammability (solid, gaseous): Not determined.
  - Ignition temperature:
    - Decomposition temperature: Not determined.
  - Auto igniting: Product is not selfigniting.
  - Danger of explosion: Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
  - Vapor pressure: Not applicable.
- **Density:**
  - Relative density: Not determined.
  - Vapour density: Not applicable.
10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
- **Possibility of hazardous reactions**: No dangerous reactions known.
- **Conditions to avoid**: No further relevant information available.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**: No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
  · **Acute toxicity**: 
    · **Primary irritant effect**:
      · **on the skin**: Irritant to skin and mucous membranes.
      · **on the eye**: Irritating effect. Causes serious eye irritation.
    · **Additional toxicological information**: 
      The product shows the following dangers according to internally approved calculation methods for preparations: 
      Irritant

· **Carcinogenic categories** 
  · **IARC (International Agency for Research on Cancer)** 
    Group 1 - Carcinogenic to humans 
    Group 2A - Probably carcinogenic to humans 
    Group 2B - Possibly carcinogenic to humans 
    Group 3 - Not classifiable as to its carcinogenicity to humans 
    Group 4 - Probably not carcinogenic to humans 

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
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<tbody>
<tr>
<td>57-68-1</td>
<td>Sulfamethazine</td>
</tr>
</tbody>
</table>

· **NTP (National Toxicology Program)** 
  None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration)** 
  None of the ingredients are listed.
12 Ecological information

· Toxicty
  · Aquatic toxicity: No further relevant information available.
· Persistence and degradability: No further relevant information available.
  · Bioaccumulative potential: No further relevant information available.
· Mobility in soil: No further relevant information available.
· Additional ecological information:
  · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.
· Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
  · DOT, ADR, ADN, IMDG, IATA: Non-Regulated Material
· UN proper shipping name
  · DOT, ADR, ADN, IMDG, IATA: Non-Regulated Material
· Transport hazard class(es)
  · DOT, ADR, ADN, IMDG, IATA: Non-Regulated Material
· Class
  · DOT, ADR, ADN, IMDG, IATA: Non-Regulated Material
· Packing group
  · DOT, ADR, IMDG, IATA: Non-Regulated Material
· Environmental hazards:
  · Marine pollutant: No
  · Special precautions for user: Not applicable.
  · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
· UN "Model Regulation": -

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara
    · Section 355 (extremely hazardous substances):
      None of the ingredients are listed.
    · Section 313 (Specific toxic chemical listings):
      None of the ingredients are listed.
  · TSCA (Toxic Substances Control Act):
    · 471-34-1 Calcium Carbonate

(Contd. of page 5)
Trade name: Pennchlor SP-250

57-68-1 Sulfamethazine
8042-47-5 Mineral Oil

- Proposition 65
  - Chemicals known to cause cancer:
    None of the ingredients are listed.
  - Chemicals known to cause reproductive toxicity for females:
    None of the ingredients are listed.
  - Chemicals known to cause reproductive toxicity for males:
    None of the ingredients are listed.
  - Chemicals known to cause developmental toxicity:
    None of the ingredients are listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients are listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients are listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients are listed.

- GHS label elements
  - The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms
  - GHS07

- Signal word Warning

- Hazard-determining components of labeling:
  - Magnesium-Mica
  - Calcium Carbonate
  - Sulfamethazine

- Hazard statements
  - Causes skin and eye irritation.
  - May cause respiratory irritation.

- Precautionary statements
  - Avoid breathing dust/fume/gas/mist/vapors/spray
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves.
  - Wash thoroughly after handling.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  - Continue rinsing.
  - Specific treatment (see on this label).
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Call a poison center/doctor if you feel unwell.
  - If skin irritation occurs: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.

(Contd. on page 8)
Trade name: Pennchlor SP-250

If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

<table>
<thead>
<tr>
<th>National regulations:</th>
<th></th>
<th></th>
</tr>
</thead>
</table>

· **State Right to Know**

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<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Description</th>
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<td>Magnesium-Mica</td>
<td>Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>57-62-5</td>
<td>chlortetracycline</td>
<td>Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>471-34-1</td>
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</tr>
</tbody>
</table>

All ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision** 11/20/2014 / 2

· **Abbreviations and acronyms:**
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
  STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· **Data compared to the previous version altered.**

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