1 Identification

- **Product identifier**
  - **Trade name:** Pennchlor 100 Hi-Flo
  - **Product description**
    Type A 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:**
  - Calcium Carbonate

- **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 2)
Trade name: Pennchlor 100 Hi-Flo

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)

\[
\begin{array}{ccc}
\text{Health} & 1 & \\
\text{Fire} & 1 & \\
\text{Reactivity} & 0 & \\
\end{array}
\]

HMIS-ratings (scale 0 - 4)

\[
\begin{array}{ccc}
\text{HEALTH} & 1 & \\
\text{FIRE} & 1 & \\
\text{REACTIVITY} & 0 & \\
\end{array}
\]

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 Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1 Calcium Carbonate</td>
<td>0.2-77.6%</td>
</tr>
<tr>
<td>8042-47-5 Mineral Oil</td>
<td>0.2-4.0%</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:
If irritation occurs consult a doctor. 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.
Advice for firefighters
Protective equipment:
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Trade name: Pennchlor 100 Hi-Flo

- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).
  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
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
- 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

<table>
<thead>
<tr>
<th>Components with occupational exposure limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1 Calcium Carbonate</td>
</tr>
<tr>
<td>PEL</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>REL</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>TLV</td>
</tr>
<tr>
<td>8042-47-5 Mineral Oil</td>
</tr>
<tr>
<td>ACGIH TLV</td>
</tr>
<tr>
<td>OSHA PEL</td>
</tr>
</tbody>
</table>

- 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.
Trade name: Pennchlor 100 Hi-Flo

· **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: Yellow
  · **Odor:** No data available
  · **Odor threshold:** Not determined.
  · **pH-value:** Not determined.

· **Change in condition**

  · Melting point/Melting range: Not determined.
  · Boiling point/Boiling range: Not determined.

· **Flash point:** 825 °C (1517 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **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 determined.

· **Density:**

  · Relative density: Not determined.
  · Vapour density: Not determined.
  · Evaporation rate: Not determined.

(Contd. on page 5)
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)**
    None of the ingredients are listed.

  | 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 |

- **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
- 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):
      All ingredients are listed.
Trade name: Pennchlor 100 Hi-Flo

- **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:**
    57-62-5 chlortetracycline

- **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:**
    Calcium Carbonate
  - **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.
    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.

**State Right to Know**
- 57-62-5 chlortetracycline 22.0-99.4%
- 471-34-1 Calcium Carbonate 0.2-77.6%
  - Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320
- 8042-47-5 Mineral Oil 0.2-4.0%

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** 11/19/2014 / 1

**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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