1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Material Name: Oxytetracycline Hydrochloride and Hydrocortisone Ointment

Trade Name: Terra Cortril Topical Ointment
Chemical Family: Mixture
Intended Use: Pharmaceutical product used as anti-inflammatory

2. HAZARDS IDENTIFICATION

Appearance: ointment
Signal Word: DANGER

Statement of Hazard: May damage the unborn child.

Additional Hazard Information:
Long Term: Prolonged or repeated contact may cause defatting and drying of the skin.
Known Clinical Effects: May cause effects similar to those seen in clinical use including transient diarrhea, nausea and abdominal pain. Symptoms of chronic exposure to tetracyclines include redness and swelling of the skin, rash, chills, tooth discoloration, yellowing of the skin and eyes, nausea, vomiting, diarrhea, stomach pain, and chest pain. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions. Wheezing, asthma, low or high blood pressure, dizziness, lung congestion, blood changes (leukocytosis, atypical lymphocytes, toxic granulation of granulocytes and thrombocytopenia purpura), convulsion or shock may also occur.

EU Classification
EU Indication of danger: Toxic to reproduction: Category 1

EU Risk Phrases: R61 - May cause harm to the unborn child.

2. HAZARDS IDENTIFICATION

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous</th>
<th>CAS Number</th>
<th>EU EINECS/ELINCS List</th>
<th>EU Classification</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxytetracycline hydrochloride</td>
<td>2058-46-0</td>
<td>218-161-2</td>
<td>Repr. Cat.1;R61</td>
<td>3.3</td>
</tr>
<tr>
<td>Hydrocortisone</td>
<td>50-23-7</td>
<td>200-020-1</td>
<td>Repr. Cat.3;R63</td>
<td>1</td>
</tr>
<tr>
<td>Light Liquid Paraffin</td>
<td>8012-95-1</td>
<td>232-384-2</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>EU EINECS/ELINCS List</th>
<th>EU Classification</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paraffin, White Soft</td>
<td>Mixture</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: Formation of toxic gases is possible during heating or fire.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.
6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

Measures for Environmental Protections: Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Additional Consideration for Large Spills: Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

General Handling: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Oxytetracycline hydrochloride
  Pfizer OEL TWA-8 Hr: 500µg/m³

Hydrocortisone
  Pfizer OEL TWA-8 Hr: 100 µg/m³, Skin

Light Liquid Paraffin
  ACGIH Threshold Limit Value (TWA): 5 mg/m³ TWA
  ACGIH Threshold Limit Value (STEL): 10 mg/m³ STEL
  ACGIH OELs - Notice of Intended Changes: Listed
  Australia TWA: 5 mg/m³
  Belgium OEL - TWA: Listed
  Bulgaria OEL - TWA: Listed
  Czech Republic OEL - TWA: Listed
  Denmark OEL - TWA: Listed
  Finland OEL - TWA: Listed
  Greece OEL - TWA: Listed
  Ireland OEL - TWAs: Listed
  Netherlands OEL - TWA: Listed
  OSHA - Final PELs - TWAs: 5 mg/m³
  Poland OEL - TWA: Listed
  Portugal OEL - TWA: Listed
  Romania OEL - TWA: Listed
  Spain OEL - TWA: Listed
  Sweden OEL - TWAs: Listed
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

- **Hands:** Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.
- **Eyes:** Wear safety glasses or goggles if eye contact is possible.
- **Skin:** Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.
- **Respiratory protection:** If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State:** Suspension Ointment
- **Molecular Formula:** Mixture
- **Solubility:** Insoluble: Water
- **Polymerization:** Will not occur

10. STABILITY AND REACTIVITY

- **Chemical Stability:** Stable under normal conditions of use.
- **Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions.
- **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual ingredients.

**Acute Toxicity: (Species, Route, End Point, Dose)**

**Oxytetracycline hydrochloride**
- Mouse Oral LD50 6696 mg/kg
- Mouse SC LD50 600 mg/kg
- Rat SC LD50 800 mg/kg
- Mouse IV LD50 100 mg/kg
- Rat IV LD50 302 mg/kg

**Hydrocortisone**
- Rat Oral LD 50 5000 mg/kg
11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Material Name: Oxytetracycline Hydrochloride and Hydrocortisone Ointment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date: 21-Jun-2011</td>
</tr>
</tbody>
</table>

Irritation / Sensitization: (Study Type, Species, Severity)

- **Light Liquid Paraffin**
  - Eye Irritation: Rabbit, Moderate
  - Skin Irritation: Rabbit, Mild

Hydrocortisone

- Eye Irritation: Rabbit, Minimal

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

**Oxytetracycline hydrochloride**

- 13 Week(s) Mouse Oral 3821 mg/kg/day NOAEL None identified
- 13 Week(s) Rat Oral 3352 mg/kg/day NOAEL Liver
- 12 Month(s) Dog Oral 125 mg/kg/day NOAEL Male reproductive system
- 24 Month(s) Dog Oral 250 mg/kg/day NOAEL None identified
- 14 Day(s) Rat Oral 108 g/kg LOEL Brain

**Hydrocortisone**

- 7 Day(s) Mouse Oral 140 mg/kg/day LOAEL Thymus
- 4 Day(s) Mouse Subcutaneous 100 mg/kg/day LOAEL Liver
- 2 Week(s) Mouse Subcutaneous 560 mg/kg/day LOAEL Liver, Bone Marrow
- 85 Day(s) Rat Subcutaneous 175 mg/kg/day LOAEL Adrenal gland

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

**Oxytetracycline hydrochloride**

- 2 Generation Reproductive Toxicity Rat Oral 18 mg/kg/day NOAEL No effects at maximum dose
- Embryo / Fetal Development Rat Oral 1500 mg/kg/day NOAEL Maternal Toxicity
- Embryo / Fetal Development Mouse Oral 2100 mg/kg/day NOAEL Embryotoxicity

**Hydrocortisone**

- Embryo / Fetal Development Mouse Oral 10 mg/kg/day LOAEL Teratogenic
- Reproductive & Fertility Rat Oral 210 mg/kg/day LOAEL Maternal Toxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

**Oxytetracycline hydrochloride**

- Bacterial Mutagenicity (Ames) *Salmonella* Negative
- In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative
- Sister Chromatid Exchange Chinese Hamster Ovary (CHO) cells Negative
- Micronucleus Mouse Negative
- Mammalian Cell Mutagenicity Mouse Lymphoma Positive with activation

**Hydrocortisone**

- Bacterial Mutagenicity (Ames) *Salmonella* Negative
- Unscheduled DNA Synthesis Rat Negative
11. TOXICOLOGICAL INFORMATION

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Oxytetracycline hydrochloride
24 Month(s) Rat Oral, in feed 150 mg/kg/day NOEL Not carcinogenic
103 Week(s) Mouse Oral, in feed 1372 mg/kg/day NOEL Not carcinogenic

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Light Liquid Paraffin IARC: Group 3

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided. See Aquatic toxicity data of the active ingredient, below:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Oxytetracycline hydrochloride
Onchorhynchus mykiss (Rainbow Trout) ASTM EPA LC50 96 Hours > 116 mg/L
Daphnia magna (Water Flea) ASTM EPA EC50 48 Hours > 102 mg/L
Leponis macrochirus (Bluegill Sunfish) ASTM EPA LC50 96 Hours > 94.9 mg/L
Selenastrum capricornutum (Green Alga) ISO EC50 72 Hours 4.18 mg/L

Aquatic Toxicity Comments: A greater than (>) symbol indicates that acute ecotoxicity was not observed at the maximum solubility. Since the substance is insoluble in aqueous solutions above this concentration, an acute ecotoxicity value (i.e. LC/EC50) is not achievable.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Indication of danger: Toxic to reproduction: Category 1
15. REGULATORY INFORMATION

**EU Risk Phrases:**

R61 - May cause harm to the unborn child.

**OSHA Label:**

DANGER

May damage the unborn child.

**Canada - WHMIS: Classifications**

**WHMIS hazard class:**

Class D, Division 2, Subdivision A

---

<table>
<thead>
<tr>
<th>Substance</th>
<th>California Proposition 65</th>
<th>Inventory - United States TSCA - Sect. 8(b)</th>
<th>Australia (AICS):</th>
<th>EU EINECS/ELINCS List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxytetracycline hydrochloride</td>
<td></td>
<td>Listed</td>
<td>Listed</td>
<td>218-161-2</td>
</tr>
<tr>
<td>Hydrocortisone</td>
<td></td>
<td>Listed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard for the Uniform Scheduling</td>
<td>Schedule 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>for Drugs and Poisons:</td>
<td>Schedule 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Schedule 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EU EINECS/ELINCS List</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>200-020-1</td>
<td></td>
</tr>
</tbody>
</table>

| Light Liquid Paraffin            |                           | Inventory - United States TSCA - Sect. 8(b)| Listed            |                       |
|                                  |                           | Australia (AICS):                         | Listed            |                       |
|                                  |                           | EU EINECS/ELINCS List                      |                   |                       |
|                                  |                           |                                             | 232-384-2         |                       |

16. OTHER INFORMATION

**Text of R phrases mentioned in Section 3**

R61 - May cause harm to the unborn child.
R63 - Possible risk of harm to the unborn child.

**Data Sources:**

Publicly available toxicity information. Pfizer proprietary drug development information.

**Prepared by:**

Product Stewardship Hazard Communications
Pfizer Global Environment, Health, and Safety Operations
Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet