1. IDENTIFICATION

Product Name: VIRBANTEL® (pyrantel pamoate/praziquantel) Flavored Chewables

Product Number(s): 51114, 54030

Recommended use of the chemical and restrictions on use:

Identified uses: Chewable Tablets for Worm Control in Dogs
Restrictions on Use: Not for human use.

Company Identification: Virbac AH, Inc.
P.O. Box 162059
Fort Worth, Texas 76161

Customer Information Number: (800) 338-3659

Emergency Telephone Number:
Chemtrec Number: (800) 424-9300
Other Emergency Number:
Human Toll-free 833-224-2009
Animal Toll-free 833-224-2013

Issue Date: March 10, 2020
Supersedes Date: June 11, 2018

Safety Data Sheet prepared in accordance with OSHA’s Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARDS IDENTIFICATION

Hazard Classification
Hazardous to the Aquatic Environment – Long -Term Hazard: Category 3 (This classification not adopted by OSHA)

Label Elements
Hazard Symbols: None

Signal Word: None

Hazard Statements
Harmful to aquatic life with long lasting effects.

Precautionary Statements
Prevention
Avoid release to the environment.

Response
None

Storage
None

Disposal
Dispose of contents/container in accordance with local and national regulations.

Other Hazards
This product may cause a reaction in individuals with pork allergies.
2. HAZARDS IDENTIFICATION

Specific Concentration Limits
The values listed below represent the percentages of ingredients of unknown toxicity.
- Acute oral toxicity: 10 - 20%
- Acute dermal toxicity: 50 - 60%
- Acute inhalation toxicity: 70 - 80%
- Acute aquatic toxicity: >90%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:
This product is a mixture.

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrantel Pamoate</td>
<td>22204-24-6</td>
<td>30 - 40%</td>
</tr>
<tr>
<td>Praziquantel</td>
<td>55268-74-1</td>
<td>10 - 20%</td>
</tr>
<tr>
<td>Pork Liver Powder</td>
<td>NA</td>
<td>10 - 20%</td>
</tr>
<tr>
<td>Acrylic Polymer</td>
<td>24938-16-7</td>
<td>1 - 10%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eyes
Not an expected route of entry. If tablet contacts eye, flush thoroughly with water. If pain or irritation persists contact a physician.

Skin
If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

Ingestion
Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation
Remove person to fresh air. Seek medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed
Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians
Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media
Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards
Can release hazardous vapors during a fire.
5. FIRE - FIGHTING MEASURES

Protective Equipment for Fire-Fighting
Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
No specific measures recommended.

Environmental Precautions
Prevent the material from entering drains or watercourses.

Methods and materials for containment and cleaning up
Pick up and dispose of in accordance with all applicable local and national regulations. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective clothing.

Conditions for safe storage
Store in original container at temperatures between 59°F and 86°F (15°C - 30°C). Store away from children and pets.

8. EXPOSURE CONTROLS/PERSOMAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

Appropriate engineering controls
No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Individual protection measures
Respiratory Protection
Not required under normal conditions of use.
Skin Protection
Not required under normal conditions of use.
Eye/Face Protection
Not required under normal conditions of use.
Body Protection
Normal work wear

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State
Solid (tablet)
Color
Beige
Odor
None
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Range/Point (°C/F)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point (°C/F)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point (PMCC) (°C/F)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate (BuAc=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosive limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosive limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Data is not available

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Heat - high temperatures

Incompatible Materials
None known.

Hazardous Decomposition Products
Oxides of carbon – nitrogen oxides – sulfur oxides – combustible acrylate vapors

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Praziquantel
Oral LD50 (rat) 2840 mg/kg
Dermal LD50 (rat) >2000 mg/kg
Pyrantel Pamoate
Oral LD50 (rat) >2000 mg/kg
11. TOXICOLOGICAL INFORMATION

Specific Target Organ Toxicity (STOT) – single exposure
Praziquantel: Acute overexposure (ingestion) may cause dizziness, headache, drowsiness, malaise, abdominal pain.

Specific Target Organ Toxicity (STOT) – repeat exposure
No relevant studies identified.

Serious Eye damage/Irritation
Praziquantel: Not irritating to eyes in rabbit studies.

Skin Corrosion/Irritation
Praziquantel: Not irritating to skin in rabbit studies.

Respiratory or Skin Sensitization
This product may cause a reaction in individuals with pork allergies.
Praziquantel: Not sensitizing to skin in guinea pig study.

Carcinogenicity
Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity
Praziquantel: Negative results for in vivo and in vitro animal studies.

Reproductive Toxicity
Praziquantel: Studies in rats and rabbits have shown no evidence of impaired fertility or harm to the fetus. An increase of the abortion rate was found in rats at three times the single human therapeutic dose.
Pyrantel Pamoate: No evidence of adverse effects on fertility, reproduction or lactation was observed in rats at oral doses of 250 mg/kg/day. No maternal toxicity, embryo or fetotoxicity were observed in perinatal and postnatal toxicity study.

Aspiration Hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Praziquantel: Chronic Aquatic Toxicity: Category 3
Acrylic Polymer: Chronic Aquatic Toxicity: Category 2

Mobility in soil
No relevant studies identified.

Persistence/Degradability
No relevant studies identified.

Bioaccumulative Potential
No relevant studies identified.
12. ECOLOGICAL INFORMATION

Other adverse effects
No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

United States TSCA Inventory
This product is excluded from the US EPA Toxic Substance Control Act and is regulated under the Food, Drug and Cosmetic Act.

SARA Title III Sect. 311/312 Categorization
None

SARA Title III Sect. 313
The following chemicals are listed in Section 313 at or above de minimis concentrations: None

16. OTHER INFORMATION

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
BOD: Biological Oxygen Demand
CAS#: Chemical Abstracts Service Number
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Revision Date: March 10, 2020
Replaces: June 11, 2018
Changes made: Update to emergency numbers.

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.
16. OTHER INFORMATION

Prepared By: EnviroNet LLC.

VIRBANTEL is a registered trademark of Virbac S.A.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Virbac AH, Inc. assumes no liability for the accuracy or completeness of this information. It is the user’s responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.