SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MANUFACTURER: PFIZER INC.
ANIMAL HEALTH GROUP
812 SPRINGDALE DRIVE
EXTON, PA 19341
EMERGENCY TEL NO.: 1-800-228-5635
HOURS OF OPERATION: 24 Hours
TELEPHONE NO.: 1-800-733-5500

PRODUCT NAME: DECTOMAX 1% injectable solution (10mg/ml) for cattle
SYNONYMS: B1-Cyclohexyl Avermectin; Doramectin; Avermectin Ala, 25-cyclohexyl-5-O-dimethyl-25-di(1-methylpropyl)-
CHEMICAL FAMILY: Antiparasitic agent belonging to the avermectin class of macroyclic lactones.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredient</th>
<th>CAS Number</th>
<th>Amount (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doramectin</td>
<td>17704-25-3</td>
<td>1%</td>
</tr>
<tr>
<td>Ethyl Oleate</td>
<td>111-62-6</td>
<td>&lt;25%</td>
</tr>
<tr>
<td>Sesame Oil</td>
<td>8008-74-0</td>
<td>&gt;70%</td>
</tr>
</tbody>
</table>

NFPA RATINGS (Scale 0-4)

HEALTH: 2
FIRE: 0
REACTIVITY: 0

SECTION 3 - HAZARDS IDENTIFICATION

SHOULD NOT BE DAMAGED OR開放 TO HEAT, SPARKS OR FLAME. USE NON-COMBUSTIBLE ABSORBENT MATERIALS TO CLEAN UP SPILLS.

SECTION 4 - FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention at once.
SKIN: Remove contaminated clothing and shoes. Wash skin with soap and plenty of water. If irritation occurs or persists, get medical attention. Wash clothing and shoes before reuse.
INHALATION: Remove to fresh air. Get medical attention. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen by qualified personnel.
INGESTION: If large quantities of this material are swallowed, get medical attention immediately. Do not induce vomiting unless directed by medical personnel.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARD: Toxic emissions may be given off in a fire. See decomposition products in Section 10-STABILITY AND REACTIVITY.

FIRE FIGHTING INSTRUCTIONS: Wear NIOSH/MSHA approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Use caution in approaching fire. Use water to keep fire exposed containers cool.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: Review Sections 3 and 8 before proceeding with the clean up. Shut off the source of the spill or leak and all electrical equipment if it is safe to do so. Eliminate possible ignition sources. Absorb spills with noncombustible absorbent material. Clean spill area thoroughly.

SECTION 7 - HANDLING AND STORAGE

GENERAL HANDLING: Keep away from heat, sparks and flame. Use with adequate ventilation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin and clothing. Avoid breathing vapor or mist. When handling, use proper personal protective equipment specified in Section 8. Wash thoroughly after handling.

STORAGE: Store out of direct sunlight in a cool, well ventilated dry area. Store in light resistant containers. Keep containers tightly closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

HAZARDOUS INGREDIENT: Doramectin
OSHA: PFIZER
TYPE: TWA
VALUE: 0.2 mg/m3

EXPOSURE INFORMATION: No Short Term Exposure Limit (STEL) has been established.

MEASUREMENT METHOD: DORAMECTIN: CAM-JWT-93-08 (contact Pfizer for additional details).

VENTILATION: Keep airborne contamination levels below the Exposure Limits listed above in this section. General room ventilation is adequate unless the process generates mist or vapor. Do not use in a confined space.

VENTILATION (large scale): See "Ventilation" above.

EYE PROTECTION: Chemical goggles are recommended if eye contact is possible.
SKIN PROTECTION: Use protective clothing (lab coats, disposable overalls, etc.) in both production and laboratory areas.

HAND PROTECTION: Latex gloves are recommended if there is a potential for skin contact.

RESPIRATORY PROTECTION: If the applicable OEL is exceeded, wear an approved respirator sufficient to reduce exposures to below TWA-OEL.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Liquid
COLOR: Colorless to pale yellow solution
CLARITY: Clear
ODOR: No data available.
TASTE: No data available.
MOLECULAR WEIGHT: 899.14
MOLECULAR FORMULA: C50H74O14
pH: Not applicable
WATER SOLUBILITY: Doramectin is insoluble in water.
SOLVENT SOLUBILITY: Doramectin is freely soluble in methylene chloride or methanol and soluble in isopropanol.

SECTION 10 - STABILITY AND REACTIVITY

STORAGE: Stable.
CONDITIONS TO AVOID: Direct sunlight, heat, sparks or open flames.
INCOMPATIBILITIES: Incompatible with oxidizing agents, strong acids and strong bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and oxides of nitrogen.
HAZARDOUS POLYMERIZATION: Will not occur.
OXIDIZING PROPERTIES: No data available.
EXPLOSIVE PROPERTIES: None expected.

SECTION 11 - TOXICOLOGY INFORMATION

ACUTE TOXICITY:
Type  Route  Species  Dosage
LD50  Oral  Rat  500 - 2000 mg/kg
LD50  Oral  Rat  50 - 200 mg/kg
EVE: Not determined for this mixture.

SKIN: The acute dermal LD50 (rabbit) for doramectin in sesame oil is reported to be >2 gm/kg.

INHALATION: Not determined for this mixture.

INGESTION: Not determined for this mixture.

MUTAGENICITY: No evidence of mutagenicity was observed for doramectin when tested in vitro and in vivo in the following assays: the Ames test, the mouse lymphoma L5178Y assay and the unscheduled DNA synthesis (UDS) assay in cultures of rat hepatocytes.

ADDITIONAL ACUTE TOXICITY INFORMATION: The acute oral, single-dose toxicity of doramectin in rats, when suspended in 0.1% aqueous methylcellulose solution or sesame oil, is summarized above, respectively.

SUBCHRONIC EFFECTS: Repeat-dose and subchronic oral toxicity studies of doramectin were conducted in rats at doses up to 8 mg/kg for 3 months and in dogs at doses up to 4 mg/kg for 1 month or 2 mg/kg for 3 months. In rats, no evidence of drug-related toxicity other than increased absolute liver weight in high-dose females was seen. In dogs, dose-dependent mydriasis (pronounced or abnormal pupillary dilation) was the primary clinical observation in all treated animals. Decreased food consumption and body weight in all treated animals, but most pronounced at high dose (4 mg/kg/day) were also seen. High-dose males also exhibited tremors, salivation and ataxia; emesis was observed in high-dose females.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL OVERVIEW: Free doramectin may adversely affect fish and certain waterborne organisms on which they feed.

PARTITION COEFFICIENT (N-octanol/water): Not available

DISPOSAL PROCEDURE: Do not dispose of even small amounts in the sewage system. This material may be disposed in a municipal landfill. Dispose of in accordance with all Federal, State and local regulations.

SECTION 13 - DISPOSAL INFORMATION

PROPER SHIPPING NAME: Non-regulated

SECTION 14 - TRANSPORTATION INFORMATION

SUMMARY: Not applicable


SUMMARY: Not applicable.

DISCLAIMER: Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate. While Pfizer provides this information in good faith, it does not expressly or impliedly warrant its accuracy.

MSDS NO.: 00175-01; DECTOMAX Injectable
CREATION DATE: 7/18/96
VERSION: 1.0
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COMPAS Code: 30340010