

020311, 020312

Fleming Laboratories

WAZINE (R) 17

HMIS

Health 2
 Flammability/Fire 0
 Reactivity 0
 Protection X
 FLEMING LABORATORIES, INC.
 P.O. Box 34384
 Charlotte, NC 28234
 Reviewed March 2000

SECTION I

Product/Trade Name: "Wazine 17"
 Chemical Name: Dipiperazine Sulfate Solution
 Synonyms: Piperazine liquid wormer
 Chemical Family: Water solution of amine salt
 Chemical Formula: (C₄H₁₀N₂)₂.H₂SO₄
 CAS No.: NE

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Components: Dipiperazine Sulfate
 (Piperazine Base = 17% w/v)
 %wt: 24
 Exposure Limits (State Units): NE

SECTION III PHYSICAL DATA

Boiling Point: >100 deg C
 Vapor Pressure (mm Hg): Like water
 Vapor Density (Air = 1): Like water
 Solubility in Water: Miscible
 Specific Gravity (H₂O = 1) @ 25 deg C +/- 2 deg C: 1.090 - 1.120
 Percent Volatility by Vol.: N/A
 Evaporation Rate (= 1): N/A
 pH @ 25 deg C +/- 2 deg C: 7.50 - 8.50
 Appearance & Color: Clear liquid; artificial coloring normally added to produce yellow to light orange/red color, slight odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: deg C deg F Non Flammable
 (Method Used: N/A)
 Flammable Limits % by Volume
 Lel: N/A
 Uel: N/A
 Extinguishing Media and Special Fire-Fighting Procedures:
 Spray water to cool containers. Wear full protective clothing and MSHA/NIOSH approved self-contained breathing apparatus. (Schedule 13)
 Unusual Fire and Explosion Hazards: Thermal decomposition may produce oxides of sulphur, carbon, and nitrogen.

SECTION V HEALTH HAZARD DATA

Effects of Overexposure:
 EYE CONTACT: May cause irritation.
 SKIN CONTACT: Believed to be irritating.
 INHALATION: Not believed harmful under normal conditions.
 INGESTION: No data, but believed to be of low toxicity.
 PRIMARY ROUTES OF ENTRY: Skin contact.
 Emergency First Aid Procedures:
 EYES: As with most foreign material, in case of eye contact flush eyes with plenty of water for 15 minutes.
 SKIN: Wash exposed areas with soap and water.
 INHALATION: Remove to fresh air.
 INGESTION: None considered necessary for small amount.
 For large amounts consult a physician.

SECTION VI REACTIVITY DATA

Stability
 Stable: X
 Unstable:
 Conditions to Avoid: N/A
 Incompatibility (Materials to Avoid): None known
 Hazardous Decomposition Products: May decompose in a fire, yielding oxides of sulfur, nitrogen and carbon.
 Hazardous Polymerization
 May Occur:
 Will Not Occur: X
 Conditions to Avoid: N/A

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be Taken In Case Material is Released or Spilled:
 Contain spill and keep out of municipal sewers and waterways. Absorb material with suitable absorbent and place in containers. Remove contaminated clothing and wash before reuse. Wash skin with soap and water.
 Method: Dispose only in approved chemical disposal area and in a manner which complies with all local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Not required for normal operation
 Ventilation
 Local Exhaust: Usually not necessary
 Mechanical (general): Usually not necessary
 Special/Other: N/A
 Protective Gloves: Rubber or neoprene
 Eye Protection: Safety glasses recommended
 Other Protective Equipment: If needed to prevent skin contact.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage: Avoid contact with skin, eyes and clothing (See Section VIII). Remove and wash contaminated clothing before reuse.
 Other Precautions: Thoroughly wash face and hands with soap and water after handling.
 Dot Labels Required: None
 This information is taken from sources or based upon data believed to be reliable, however, Fleming Laboratories, Inc, makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

N/A = Not Applicable
 NE = Not Established
 DNA = Data Not Available

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES: although preparer and owner have taken reasonable care in the preparation of this document, we extend no warranties and make no representation as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each user should make a determination as to the suitability of the information for their particular purpose(s). A request has been made to the manufacturer to approve the contents of this material safety data sheet. Upon receipt of any changes a new MSDS will be made available.

COMPAS Code: 14260040