



Material Safety Data Sheet

WAZINE® 34

HMIS	
Health	2
Flammability/Fire	0
Reactivity	0
Protection	X

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SECTION I

Product/Trade Name:	"Wazine 34"
Chemical Name:	Dipiperazine Sulfate Solution
Synonyms:	Piperazine liquid wormer
Chemical Family:	Water solution of amine salt
Chemical Formula:	$(C_4H_{10}N_2)_2 \cdot H_2SO_4$ CAS No.: NE

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Active Component:	Dipiperazine Sulfate
% as Piperazine Base	34% w/v
Exposure Limits (State Units):	NE

SECTION III PHYSICAL DATA

Boiling Point:	>100°C
Vapor Pressure (mm Hg):	Like water
Vapor Density (Air = 1):	Like water
Solubility in Water:	Miscible
Specific Gravity (H ₂ O-1):	1.170-1.200
Percent Volatility By Vol.:	N/A
Evaporation Rate (=1):	N/A
pH @ 25°C ± 2°C	8.0-8.70
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 °C °F	Non Flammable	Flammable Limits % by Volume	LeI	UeI
(Method Used: N/A)			N/A	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 sulfur, carbon, and nitrogen.				

N/A = Not Applicable

NE = Not Established

DNA = Data Not Available

SECTION V HEALTH HAZARD DATA**Effects of Overexposure:**

EYE CONTACT:	May cause irritation.
SKIN CONTACT:	May 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 and First Aid Procedures:

EYES:	As with most foreign material, in case of eye contact flush eyes with plenty of water for 15 minute.
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

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Stability	Stable	X	Conditions to Avoid:	N/A
	Unstable			
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:		Conditions to Avoid:	N/A
	Will Not Occur:	X		

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

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken In Handling and Storing:	Avoid contact with skin, eyes and clothing. (See Section VIII). Promptly remove contaminated clothing, washing affected skin. Put on clean clothing. 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.