

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 ₄ H ₁₀ N ₂) ₂ · H ₂ SO 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 (Method Used: N/A)	Flammable Limits % by Volume	Lel	Uel
		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

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

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 contact.		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken In Handling and Storing:	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

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