MATERIAL SAFETY DATA SHEET

Effective: January 13, 2000
Superseded: July 17, 1996

NE = Not Established NA = Not Applicable

IDENTITY (As Used on Label and List)
KETOCONAZOLE
Piperazine, 1-acetyl-4-[4-[[2-(2,4-dichlorophenyl-)2-(1H-Imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-, cis-

CAS No. 65277-42-1

SECTION I

MANUFACTURER:
Wyckoff, Inc.
1421 Kalamazoo Street
South Haven, MI 49090

EMERGENCY TELEPHONE # Mon- Fri: 8:00 AM - 5:00 PM
616-637-8474
EMERGENCY TELEPHONE # Mon-Fri.:5:00 PM - 8:00 AM:
616-639-0199
EMERGENCY TELEPHONE # Sat-Sun: ALL DAY
616-639-0199

TELEPHONE NUMBER FOR INFO. - 616-637-8474

SIGNATURE OF PREPARER (OPTIONAL) A. Zeiler

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Common Names(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Ketoconazole	NA	NA	NA	100

Toxicity Data:
LD 50: 166 mg/kg oral rat
LDLow: 45 mg/kg/17 day--intermittent oral man

SECTION III - Physical/Chemical Characteristics

Boiling Point	NA	**Vapor Pressure (mm Hg)**	NA	**Vapor Density (AIR=1)**	NA
Specific Gravity (H20=1)	NA	**Melting Point**	146°C	**Evaporation Rate (Butyl Acetate=1)**	NA

Solubility in Water
Practically insoluble

Appearance and Odor
White to off-white powder; odorless

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Methods Used)	Flammable Limits	LEL	UEL
NA		NA	NA

Extinguishing Media
Water spray, dry chemical, carbon dioxide or foam is appropriate for surrounding fire and material

Special Fire Fighting Procedures
As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Unusual Fire and Explosion Hazards
Material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential build-up of static electricity.

SECTION V - Reactivity Data

Stability	**Unstable**		**Conditions to Avoid**
	Stable	X	Material is stable from the safety point of view.

Incompatibility (Materials to Avoid)
Acids, oxidants and strong bases

Hazardous Decomposition or by-Products
Emits toxic fumes under fire conditions

Hazardous Polyerization	**May Occur**		**Conditions to Avoid**
	Will Not Occur	X	NA

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SECTION VI - Health Hazard Data

Route (s) of Entry:					
Inhalation?	Yes	Skin?	Limited	Ingestion?	Yes

Health Hazards (Acute and Chronic)

Repeated administration may cause nausea, headache, dizziness, constipation or diarrhea, abdominal pain, somnolence, nervousness, fatigue, hypertension, malaise, anorexia and pruritus.

Carcinogenicity:					
NTP?	No	IARC Monographs?	No	OSHA Regulated?	No

Signs and Symptoms of Exposure

Eye, skin and/or respiratory tract irritation.

Medical Conditions Generally Aggravated by Exposure

Hypersensitivity to material, active alcoholism and liver disease

Emergency and First Aid Procedures

Remove from exposure. Persons developing serious hypersensitivity reactions must receive immediate medical attention. Upon eye or skin contact, flush area with copious quantities of water.

SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Sweep up material and package for disposal, wear a dust mask and protective clothing.

Waste Disposal Method

Dispose of waste in accordance with all applicable Federal, State and Local laws.

Precautions to Be Taken in Handling and Storing

None

Other Precautions

Avoid contact with eyes, skin, or clothing. Avoid breathing dust. Use with adequate dust control.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type)

NIOSH Approved Respirator

Ventilation					
Adequate	Local Exhaust	Yes	Special		No
	Mechanical(General	Yes	Other		No
Protective Gloves	Rubber	Eye Protection	Safety goggles		

Other Protective Clothing or Equipment

None

Work/Hygienic/Maintenance Practices

Avoid breathing dust.

NOTE: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.