# Material Safety Data Sheet

IDENTITY (As Used on Label and List)	
Selan Antifungal	

#### **Section I**

Manufacturer/Distributor's Name	Emergency Telephone Number
Span-America	(800) 888-6752
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
70 Commerce Center	(864) 288-6752
Greenville, SC 29615	Date Prepared: 01/26/04

### **Section II - Hazard Ingredients/Identity Information**

Hazardous Components (Specifi Common Name(s))	c Chemical Identity;	CAS#	OSHA PEL	ACGIH TLV	STEL	HAZARDOUS
Chemical Name	Trade/Common					
Blend of fatty alcohol and ethoxylated sorbitan ester	Polawax	N/A	N/A	N/A	N/A	None Found
Glycol	PGUSPRV Propylene Glycol – USP RV	57-55-6	N/A	N/A	N/A	
TBF 9 – (5 to 600M)	Dimethylpolysiloxane	N/A	N/A	N/A	N/A	None Found
1H-imidazole, 1-{(2,4-diealorophenyl)-2[(2,4-dichlorophenyl) methoxy] ethyl}- mononitrate	Miconazole Nitrate	22832-87-7	N/A	N/A	N/A	
Zinc Oxide Powder	Zinc White, Chinese White	1314-13-2	N/A	10mg/ M3	N/A	

### **Section III - Physical/Chemical Characteristics**

### **NFPA/HMIS Ratings**

Trade/Common Name	Health	Flammability	Reactivity	Special/Other
Polawax	0	0	0	PPE Code B
Propylene Glycol	0	1	0	
Dimethylpolysiloxane	0	0	0	
Miconazole Nitrate				
Zinc Oxide	1	0	0	PPE Code E

#### **Polarwax**

Boiling Point	Not Available	Specific Gravity ( $H_2O = 1$ )		N/A
Vapor Pressure (mm Hg.)	Not Available	Melting Point		50-54° C
Vapor Density (AIR = 1)	Not Available	Evaporation Rate (Butyl Acetate = 1)		N/A
Solubility in Water	Emulsifiable	pН	5.5 – 7.0 (3% i	n water)
Appearance/Physical State	Creamy white, waxy solid	Odor	Mild charac	teristic

#### **Propylene Glycol**

Boiling Point	187.2° C (369°F)	Specific Gravity ( $H_2O = 1$ )			1.0381
Vapor Pressure (mm Hg.)	<1 mm Hg @ 25° C (77° F)	Melting/Freezing Point < - 60° C			(< - 76° F)
Vapor Density (AIR = 1)	5.2	Evaporation Rate (Butyl Acetate = 1)			<1
Solubility in Water	Slight (0.1-1%)	рН			6
Appearance/Physical State	Colorless mobile liquid	Odor		Mild Odor	

### Dimethylpolysiloxane

Boiling Point	N/A	Specific Gravity ( $H_2O = 1$ )	.97
Vapor Pressure (mm Hg.)	NEG	Melting/Freezing Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	<1
Solubility in Water	Insoluble	Acid/Alkalinity (MEQ/G)	7
Appearance /Physical State	Clear liquid	Odor	None
% Volatile by Weight	<1	Density (Kg/M3)	958.5

#### Miconazole Nitrate

Boiling Point	N/A	Specific Gravity ( $H_2O = 1$ )	N/A
Vapor Pressure (mm Hg.)	N/A	Melting/Freezing Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Very Slightly Soluble	Acid/Alkalinity (MEQ/G)	N/A
Appearance /Physical State	White or practically white	Odor	Slight
	crystalline or powder		_
% Volatile by Weight	N/A	Density (Kg/M3)	N/A

#### **Zinc Oxide**

Boiling Point	N/A	Specific Gravity ( $H_2O = 1$ )	5.61
Vapor Pressure (mm Hg.)	Sublimes @ 1975° C	Melting/Freezing Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	0.00016g/100ml cold water; soluble	Acid/Alkalinity (MEQ/G)	N/A
	in acids and bases	- ' '	
Appearance / Physical State	Fine white powder	Odor	None
% Volatile by Weight	N/A	Molecular Weight	81.38

### **Section IV - Fire and Explosion Hazard Data**

#### **Polarwax**

Flash Point (Method Used) Closed Cup Method:	Flammable Limits	LEL	UEL		
Not Established		N/A	N/A		
Extinguishing Media: Dry Chemical, foam, carbon dioxide, water spray					
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and other protective clothing					
Unusual Fire and Explosion Hazards NONE					

## **Propylene Glycol**

Flash Point (Method Used) Closed Cup Method	Flammable Limits	LEL	UEL		
100° C (212° F)		2.6	12.5		
Extinguishing Media: Use water spray, dry chemical, foam, or carbon dioxide. Use water spray to cool fire-					
exposed containers. Water or foam may cause frothing					
Special Fire Fighting Procedures No special equipment or procedures required					
Unusual Fire and Explosion Hazards: None					
Ignition Temperature: 371.1° C (700° F)					

#### Dimethylpolysiloxane

Flash Point (Method Used)	Flammable Limits	LEL	UEL	
>204° C >400° F		N/A	N/A	
Extinguishing Media: All standard firefighting media				
Special Fire Fighting Procedures: None Known				
Sensitivity to mechanical Impact: No				
Unusual Fire and Explosion Hazards: None Known				
Sensitivity to static discharge: Sensitivity to static disc	harge is not expected			

#### Miconazole Nitrate

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A		N/A	N/A

Extinguishing Media: Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials

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

Auto-ignition temperature: 350°C

Unusual Fire and Explosion Hazards: This 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 buildup of static electricity. When heated to decomposition material emits toxic of NO and CI fumes. Emits toxic fumes under fire conditions.

#### Zinc Oxide

Flash Point (Method Used)	Flammable Limits	LEL	UEL			
N/A		N/A	N/A			
Extinguishing Media: None – Material will not burn						
Special Fire Fighting Procedures: None Known						
Auto-ignition temperature: N/A						
Unusual Fire and Explosion Hazards: None known						

#### Section V – Stability and Reactivity Data

#### **Polarwax**

Stability	Stable	Conditions to Avoid: None Known
Incompatibility (Materials	Strong oxidizing agents	
to Avoid)		
Hazardous Decomposition	Oxides of carbon	
or Byproducts		
Hazardous Polymerization	Will Not Occur	Conditions to Avoid: None Known

#### **Propylene Glycol**

Stability Stable		Conditions to Avoid: None Known	
Incompatibility (Materials None Known			
to Avoid)			
Hazardous Decomposition or Byproducts –		Toxic levels of carbon monoxide, carbon dioxide,	
heat/combustion		irritating aldehydes and ketones	
Hazardous Polymerization	Will Not Occur	Conditions to Avoid: None Known	

#### Dimethylpolysiloxane

Stability	Stable	Conditions to Avoid: None Known
Incompatibility (Materials	None Known	
to Avoid)		
Hazardous Decomposition or Byproducts –		Carbon monoxide, carbon dioxide, formaldehyde
heat/combustion		-
Hazardous Polymerization	Will Not Occur	Conditions to Avoid: None Known

#### Miconazole Nitrate

Stability	Stable		Conditions to Avoid: Material is stable from a
			safety point of view – avoid exposure to light
Incompatibility (Materials	None Known		
to Avoid)			
Hazardous Decomposition or Byproducts –			erial emits toxic fumes of NO <sub>\chi</sub> and CI. Emits toxic
heat/combustion	combustion fumes under fire conditions		
Hazardous Polymerization   Will Not Occur			Conditions to Avoid: None Known

### Zinc Oxide

Stability	Stable	Conditions to Avoid: None Known		
Incompatibility (Materials	Intimate mixtures with chlorinated rubber above 216° C			
to Avoid)				
Hazardous Decomposition or	r Byproducts –	None Known		
heat/combustion				
Hazardous Polymerization	Will Not Occur	Conditions to Avoid: None Known		

### **Section VI - Health Hazard Data**

#### Polarwax

Route(s) of Entry:	Inhalation?	Skin?		Ingestion?		
Health Hazards (Acut	e None determined			None determined	d	
and Chronic)						
Carcinogenicity:	Non-carcinogenic	IARC Monographs?	No	OSHA Regulated? N	lo	
Signs and Symptoms	of None determined					
Exposure						
Medical Conditions	None determined					
Generally Aggravated	1					
by Exposure						
Emergency and First	Aid Procedures					
Skin W	ash with soap and wat	h with soap and water				
Eyes Flo	sh with water for at least 15 minutes. If irritation develops, get medical attention					
Ingested Ge	t medical attention					

# **Propylene Glycol**

Route(s) of Entry:		Inhalation?	Skin/Eyes?		Ingestion?	
Health Hazards (Act	ute	Practically non-toxic	Practically non-toxic		Practically non-t	oxic
and Chronic)		•	·		v	
Carcinogenicity:		Non-carcinogenic	IARC Monographs?	No	OSHA Regulated?	No
Signs and Symptom	s of	None determined				
Exposure						
Medical Conditions		Vapors or mist in excess	Brief contact is not		If more than severa	1
Generally Aggravate		of permissible	irritating. Prolonged		mouthfuls are swall	/
by Overexposure		concentrations or in	contact as with clothing		abdominal discomfo	
		usually high	wetted with material m		nausea, and diarrho	
		concentrations generated	cause defatting or skin	or	occur. Aspiration m	
		from spraying, heating the	irritation		occur during swallo	
		material or as from			or vomiting resulting	ıg in
		exposure in poorly			lung damage.	
		ventilated areas or				
		confined spaces may cause				
		irritation of the nose, throat, headache, nausea,				
		and drowsiness				
Emergency and Firs						
		with soap and water. Get	medical attention if skir	irr	itation develops	
						tion
	Flush with water for at least 15 minutes. If irritation develops, get medical attention  If person is conscious and can swallow, give two glasses of water (16 oz.) but do not					
	induce vomiting. If vomiting occurs, give fluids again. Get medical attention					
	If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical					
	attention if breathing becomes difficult.					
a	iiiell	tion it breatting becomes u	minuit.			

# Dimethylpolysiloxane

Route(s) of Entry:		Inhalation?	Skin/Eyes?	Ingestion?
Health Hazards (Ac	cute	None determined	Skin - None determined	None determined
and Chronic)			Eyes – May cause mild eye	
·			irritation	
Carcinogenicity:		Non-carcinogenic	IARC Monographs? No	OSHA Regulated? No
Signs and Sympton	ns of	None determined	None determined	None determined
Exposure				
Medical Conditions	S	None determined	None determined	None determined
Generally Aggrava	ted			
by Exposure				
Emergency and Fir	st Aic	d Procedures		
Skin	Wasł	n with soap and wat	er	
Eyes	Flush	with water for at le	east 15 minutes. If irritation develop	s, get medical attention
Ingested	None Known			
Inhalation	None Known			
Other	Attention: Not for injection into humans. This product contains Methylpolyslloxanes,			
	which can generate Formaldehyde at approximately 300° F (150° C) and above. In			
		spheres which conta		·

#### **Miconazole Nitrate**

Route(s) of Entry:	Inhalation?	Skin/Eyes?	Ingestion?		
Health Hazards (Acute	Possible allergic	Possible mild irritation to mucous	Adverse effects include		
and Chronic)	reaction	membranes	vomiting, diarrhea,		
			convulsions and heart		
			rhythm disorders		
Carcinogenicity:	Non-carcinogenic	IARC Monographs? No	OSHA Regulated? <b>No</b>		
Signs and Symptoms o	f None determined				
Exposure					
Medical Conditions	Hypersensitivity to	Hypersensitivity to the material	Hypersensitivity to the		
Generally Aggravated	the material		material		
by Exposure					
Emergency and First A	id Procedures				
Skin The	re is little absorption	through the skin or mucous membra	anes when Miconazole		
Niti	ate is applied topical	ly, however, it has caused contact de	rmatitis. Flush with		
сор	copious amounts of water.				
	Flush with water for at least 15 minutes. If irritation develops, get medical attention				
Ingested Ma	May cause irritation. Flush out mouth with water.				
Inhalation Ma	y cause irritation of r	espiratory tract. Remove to fresh air	r		

### Zinc Oxide

Route(s) of Entry:	Inhalation?	Skin/Eyes?	Ingestion?	
Health Hazards (Acute	Dust can cause	Dust may irritate or dry the skin	Non-toxic. Although	
and Chronic)	irritation of the	Dust may cause eye irritation	ingestion is unlikely, it	
	nose, throat, and		can result in consequent	
	upper respiratory		pain, nausea, vomiting,	
	tract: Coughing		thirst and diarrhea	
	and choking	_		
Carcinogenicity:	Non-carcinogenic	IARC Monographs? No	OSHA Regulated? <b>No</b>	
Signs and Symptoms of	Chills, mild fever an	nd aching muscles and joints lasting 2	24 hours or less	
Overexposure				
Medical Conditions	Hypersensitivity to	Hypersensitivity to the material	Hypersensitivity to the	
Generally Aggravated	the material		material	
by Exposure				
Emergency and First Aid Procedures				
Skin Wash with soap and water				

Eyes	Flush with water for at least 15 minutes. If irritation develops, get medical attention
Ingested	None Known
Inhalation	Remove to fresh air. If breathing difficult, assist breathing and seek medical attention

# Section VII - Precautions for Safe Handling and Use

### Polarwax

Steps to Be Taken in Case Material is Released or Spilled		
Clean up with inert absorbent material and place into a separate waste container. Flush area with warm		
water		
Waste Disposal Method None Listed		
Precautions to Be taken in Handling and Storing	To optimize product integrity and quality, store under	
	cool, dry conditions	
Other Precautions: None		

## **Propylene Glycol**

Steps to Be Taken in Case Material is Released or Spilled		
Contain spill if possible, contain with absorbent materials such as clay or soil, and shovel up. Avoid skin		
and eye contact.		
Waste Disposal Method	This product has been evaluated for RCRA characteristics and does not meet	
	the criteria of a hazardous waste if discarded in its purchased form.	
Precautions to Be taken in	Handling: Minimum feasible handling temperatures should be maintained.	
Handling and Storing	Storage: Periods of exposure to high temperatures should be minimized.	
	Water contamination should be avoided	
Other Precautions: None		

## Dimethyl polysil oxane

Steps to Be Taken in Case Material is Released or Spilled		
Wipe, scrap or soak up in an inert material and put in a container for disposal. Wash walking surfaces		
with detergent and water to reduce slipping hazard.		
Waste Disposal Method	Should be made in accordance with federal, state, and local regulations.	
	Incineration recommended in approved incinerator according to state, federal,	
	and local regulations.	
Precautions to Be taken in	Handling: Minimum feasible handling temperatures should be maintained.	
Handling and Storing	Storage: Periods of exposure to high temperatures should be minimized.	
	Water contamination should be avoided	
Other Precautions: None		

### **Miconazole Nitrate**

Steps to Be Taken in Case	Material is Released or Spilled	
Wear approved respirator and chemically compatible gloves. Vacuum or sweep up spillage. Avoid dust.		
Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.		
Ventilate area and wash spill site.		
Waste Disposal Method	Should be made in accordance with federal, state, and local regulations.	
Precautions to Be taken in Store in light resistant container. This material should be handled and stored		
Handling and Storing	per label and other instructions to ensure product integrity	
Other Precautions: Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist. Use with		
adequate dust control. Wash thoroughly after handling. Wear fresh clothing daily. Wash contaminated		
clothing before reuse. Do not permit drinking or smoking near material.		

### Zinc Oxide

Steps to Be Taken in Case	Material is Released or Spilled	
Sweep or vacuum spills into a container. Spilled areas may be washed with water but do NOT wash into		
sewer.		
Waste Disposal Method	Waste zinc oxide should be handled in a manner which complies with local,	
_	state and federal regulations	
Precautions to Be taken in	Store in a dry area	
Handling and Storing		
Other Precautions: None		

### **Section VIII - Control Measures**

#### **Polarwax**

Respiratory Protection (Specify Type) Not required			
Ventilation	Normal ventilation adequate	Special: None	
	Mechanical (General)	Other	
Protective Gloves: Wear Impervious Gloves		Eye Protection: Use OSHA approved safety glasses	
Other Protective Clothing or Equipment: None			
Work/Hygienic Practices: Follow Good Manufacturing Practices			

## **Propylene Glycol**

Respiratory Protection (Specify Type)   Not required			
Ventilation   Local exhaust ventilation recommended if generating vapor, dust, or mist.   Special: None			
Mechanical (General)	Other		
Protective Gloves: None listed	Eye Protection: Safety glasses, chemical type goggles or		
	face shield recommended to prevent ey	e contact	
Other Protective Clothing or Equipment: None			
Work/Hygienic Practices: Workers should wash exposed skin several times daily with soap and water. Soiled			
work clothing should be washed or dry cleaned			

### Dimethylpolysiloxane

Respiratory Protection (Specify Type) Not required			
Ventilation None Known	Special: None		
Mechanical (General): None Known Other: None Known			
Protective Gloves: None listed	Eye Protection: Safety glasses		
Other Protective Clothing or Equipment: None			
Work/Hygienic Practices: Follow Good Manufacturing Practices			

#### **Miconazole Nitrate**

Respiratory Protection (Specify Type)   NIOSH approved respirator			
Ventilation Adequate	Special: None		
Mechanical (General): None Known Other: None Known			
Protective Gloves: Rubber	Eye Protection: Safety goggles		
Other Protective Clothing or Equipment: Appropriate laboratory apparel, protect exposed skin			
Work/Hygienic Practices: Follow Good Manufacturing Practices			

### Zinc Oxide

Respiratory Protection (Specify Type)   Wear OSHA approved dust mask or respirator			
Ventilation   Provide sufficient local ventilation if TLV likely to be exceeded   Special: None			
Mechanical (General): None Known Other: None Known			
Protective Gloves: Gloves recommended or use			
barrier cream			
Other Protective Clothing or Equipment: Full protective clothing is recommended for bulk dust handling			
Work/Hygienic Practices: Follow Good Manufacturing Practices			

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