MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910, 1200)

Date Prepared 7/01/86

Alkyl Dimethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride * As NaOH * As NaOH * As NaOH * Section 3 - PHYSICAL DATA * Boiling Point (*F) 212° F * Vapor Pressure rummlig) * Vapor Pressure rummlig) * Not Determined * Solubility in Water * Evaporation Rate vs 140) Appearance and Odor Appear			•	Date	epared							
Distributor Name	S	SECTION 1 - PRODUCT IDENTIFICATION										
Trade Name		A. V. Jacob Names				Emergency Telephone No. 2000			2000			
Trade Name Guardian II Chemical Family SECTION 2 - HAZARDOUS INGREDIENTS CHEMICAL NAME/COMMON NAME Silicic Acid - Sodium Salt Alkyl Dimethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride ** As NaOH SECTION 3 - PHYSICAL DATA Bouling Form! (Air = 1) Vapor Pressure (mmitg) Not Determined Family Solubility (m Vater March 1 Mar	A	address			Waukesha	. WI 5	3186	(4	114) 547-2246			
SECTION 2 - HAZARDOUS INGREDIENTS SECTION 2 - HAZARDOUS INGREDIENTS		rade Name	Maaneone	Product Type Disinfectant Cleaner/Sani			eaner/Sanitizer					
SECTION 2 - HAZARDOUS INGREDIENTS CHEMICAL NAME/COMMON NAME Silicic Acid - Sodium Salt Alkyl Dimethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride * As NaOH SECTION 3 - PHYSICAL DATA Boiling Foint (*F) Vapor Pessure (*F) Vapor Density Not Determined (*Ar-1) Formulation of the Same (*Ar-1) Not Determined (*Ar-1) Solubility in Water (**) Faster Slower (**) Appearance and Door Aqua colored liquid with characteristic odor. SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point Solub Determined (*Ar-1) None to Boiling (**) Faster (**) None to Boiling (**) None to Boiling (**) Exhogoushing Media Water Fog; Carbon Dioxide; Dry Chemical; Alcohol Foam Special Fire Fighling Procedures Firefighters should wear a self -contained breathing apparatus with full protective equipment.		Guardian II										
CHEMICAL NAME/COMMON NAME Silicic Acid - Sodium Salt Alkyl Dimethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride * As NaOH SECTION 3 - PHYSICAL DATA Boiling Point ref, ref, ref, ref, ref, ref, ref, ref,							1 Compou	nueu rrout	100			
CHEMICAL NAME/COMMON NAME Silicic Acid - Sodium Salt Alkyl Dimethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride * As NaOH SECTION 3 - PHYSICAL DATA Booling Point 1*F; Vapor Pressure rimetyl Not Determined * Mot Determined * Not Determined * Not Determined * Solubility in Water Evaporation Rale is tyled Appearance and Odor Aqua Colored liquid with characteristic odor. SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point 200° F	S	SECTION 2 - HAZARI	DOUS INGREDIENTS				2 110	PERCENT	TLV (Source)			
Silicic Acid - Sodium Sait Alkyl Dimethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride * As NaOH * As NaOH * As NaOH * Specific Gravity (HDO = 1.0)	С	CHEMICAL NAME/CON	MMON NAME									
Alkyl Dimethyl Benzyl Ammonium Chloride Alkyl Dimethyl Ethyl Benzyl Ammonium Chloride * As NaOH * As NaOH * As NaOH * Section 3 - PHYSICAL DATA * Boiling Point (+F) 212° F * Vapor Pressure (mmHg)									Not Established			
* As NaOH ** As NaOH ** As NaOH ** Section 3 - Physical data ** Booking Foint (rf) 212° F ** Vapor Pressure Immits) ** Not Determined ** Solubility In Water ** Evaporation Rate ivs #t0) ** Appearance and Odor Aqua colored liquid with characteristic odor. ** Section 4 - FIRE AND EXPLOSION HAZARD DATA ** Flash Point (T.C.C.) ** Extinguishing Media Water Fog; Carbon Dioxide; Dry Chemical; Alcohol Foam ** Special Gravity 1.080 ±0.005 pH 13.0 ±0.5 ** Descript Gravity 1.080 ±0.005 pH 13.0 ±0.5 ** Extinguishing Media Upper Lower ** As NaOH ** As NaOH ** As NaOH ** Special Gravity 1.080 ±0.005 pH 13.0 ±0.5 ** In Solution Carvity 1.080 ±0.005 pH 13.0 ±0.5 ** As NaOH ** As NaOH ** As NaOH ** Special Gravity 1.080 ±0.005 pH 13.0 ±0.5 ** Emulsiliable 1 or dispersible		Alkyl Dimethyl	Benzyl Ammonium	Chloric	le ·				Not Established			
SECTION 3 - PHYSICAL DATA		Alkyl Dimethyl	Ethyl Benzyl Am	monium C	nioriae		, , , ,	•				
SECTION 3 - PHYSICAL DATA												
Boiling Point (*F) 212° F Specific Gravity (1.080 ±0.005 pH 13.0 ±0.5]		* As NaOH										
Boiling Point (*F) 212° F Specific Gravity (1.080 ±0.005 pH 13.0 ±0.5]	-											
Boiling Point (*F) 212° F Specific Gravity (1.080 ±0.005 pH 13.0 ±0.5]												
Boiling Point (*F) 212° F Specific Gravity (1.080 ±0.005 pH 13.0 ±0.5]		SECTION 3 - PHYSIC	AL DATA									
Vapor Pressure (mmHg) Not Determined Solubility in Water Solubility in Water Evaporation Rate (vs Hz) Faster Slower Appearance and Odor Aqua colored liquid with characteristic odor. SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point (T.C.C.) > 200° F		Variable Const			·····	Specific Gra	1.08	0.005	pH 13.0 ±0.5			
Not Determined Insoluble Emulsifiable Incorporation Slight Insoluble Insolub	(0	F) 212 F				Vapor Density						
Evaporation Rate (vs Hz) Faster Slower Appearance and Odor Aqua colored liquid with characteristic odor. SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point (T.C.C.) > 200° F None to Boiling Flammable Not Upper Lower Limits Determined Extinguishing Media Water Foq; Carbon Dioxide; Dry Chemical; Alcohol Foam Special Fire Fighting Procedures Firefighters should wear a self -contained breathing apparatus with full protective equipment.		(mmHg) Not Determined			uble	Emulsifiable		- Slight				
Appearance and Odor Aqua colored liquid with characteristic odor. SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point (T.C.C.) > 200° F	10	n Water				101 dispersion						
Appearance and Odor Aqua_colored_liquid_with_characteristic_odor. SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point (T.C.C.) > 200° F	R	late (vs HeO)	Faster			<u> </u>						
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point (T.C.C.) > 200° F		Anua colored li	iquid with chara	cteristi	c odor.							
Flash Point (T.C.C.) > 200° F	S	SECTION 4 - FIRE A	ND EXPLOSION HAZA	HU DATA		Clammable	Vot. II	nner	Lower			
Extinguishing Media Water Foq; Carbon Dioxide; Dry Chemical; Alcohol Foam Special Fire Fighting Procedures Firefighters should wear a self-contained breathing apparatus with full protective equipment.	F	lash Point > 200° F				Limits Dete	ermined	rr"				
Special Fire Fighting Procedures Firefighters should wear a sent containing procedures.		vtinguishing Media	hon Dioxide: Drv	Chemica	i]; Alcohol	oam			tus with			
full protective equipment.	Special Fire Fighting Procedures Firefighters should wear a set.											
15 Name of the second s		full protective	e equipment.									
Unusual Fire and Explosion Hazards None	υ						·					
SECTION 5 - REACTIVE DATA	S	SECTION 5 - REACTI	IVE DATA									
Stability Incompatibility Stable Strong Oxidizers, Strong Acids, Anionic Surfactants		Stability		oility Oxidize	ers, Strong	Acids. A	nionic S	urfactants	5			
Hazardous Decomposition Products Burning can produce Carbon Dioxide and/or Carbon Monoxide	H											

Manage Havenno					
SECTION 6 - HEALTH HAZARDS	None	→ Not			Source
Trareshold Limit Value - Product IS-ee Section 2 for Ingredient TLV)	Established	Applicable	- Inhal-	Other	
	XX Skin	Oral	ation		t with
eyes will cause trans some individuals. In	 Prolonged or sient irritation ngestion may can 	repeated con n and reddeni use nausea, v	ng. May cause omiting, diarr	skin irritat hea and mucou	ion with sal
signs and Symptoms of Over-exposure (Chro	nic)				
None Currently Known	•				
Mone carrenery mise					4
Magical Conditions Aggravated by Over-expt	sure				
An Existing Dermatit	is	□ NTP	TIARC	OSHA	X None
Carcinogen or Suspect Carcinogen Ingredients:			<u> </u>	•	
SECTION 7 - EMERGENCY AND	FIRST AID PROCEL	JURES			
Eyes Flush with water fo	m at least 15 m	inutes and ca	<u> 11 a physician</u>		
Sam Wash with large amo			i mitation ner	sists, consul	t
Do <u>NOT</u> induce vomiti	air. If breath	ing has stopp		respiration s	
be started. Oxygen give anything by mou					
SECTION 8 - SPECIAL PROTEC	TION INFORMATIO	N			
Respiratory None Required					9
Ventuation Local	[X] Mechanical	Other			
Kednitements		Eye Protection	Safety Glasses	s/Goggles	
Groves RUDDet/170		_		•	
Other Protective Clothing Normal work clothing	covering arms	and legs.			
TOTAL OF LEAV	PROCEDURES	6			
		source. Pre	vent run off.	Mop, shovel, rs. Rinse rem	pump naining
and/or absorb with in residue with excess Waste Disposal Methods Dispose	water of in an appro	illa piace			
and local regulation		ATION			
SECTION 10 - STORAGE AND	HANDLING INFORM	ATIUN	t to oversive	heat or near	freezing
Precautions to be Taken in Handling an	d Storage Do not 6	expose produc rs carefully.	Triple rinse	all empty cor	itainers
temperatures. Hand to remove all resid	is all contained	ash thoroughl	y after handli	ng.	
to remove all residu	iai hiogaco. W				

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