

Material Safety Data Sheet

NA (Not Applicable), ND (Not Determined), NE (Not Established, NT (Not Tested)

IDENTITY (As Used on Label and List) Microbiocide		Note: Blank spaces are not permitted. If any item is not applicable, or no Information is available, the space must be marked to indicate that.			
Section I	-				
Manufacturer's Name	Emergency Telephone Number				
Water Cher Address (Number, Street, City, State,	(540) 989-0400				
	Telephone Number for Information				
3404 Aerial	(540) 343-3618				
Roanoke, V	Date Prepared				
		June 2			
	Signature of Preparer (Optional)				
Section II – Hazardous Ingredients/	Identity Information				
<u> </u>	Chemical Identity: Common Name		ACGIH TLV	Other Limits Recommended	% (optional)
Magnesium Nitrate		NA	NA		1.7%
5-Chloro-2-methyl-4-isothiazol	in-3-one	NA	NA		1.11%
2-Methyl-4-isothiazolin-3-one		NA	NA		.39%
expressed or implied, as to the accuration contained herein. The	e manufacturer makes no warranties, racy, completeness, or adequacy of the ne manufacturer shall not be liable the yendee's employees or anyone for	4 = EXTREME 3 = HIGH 2 = MODERATE		HEAL	FIRE O REACTIVITY
expressed or implied, as to the accu- information contained herein. The (regardless of fault) to the vendee, to any direct, special or consequential of with the accuracy, completeness, ade	racy, completeness, or adequacy of the ne manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information.	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE		HEAL 3	
expressed or implied, as to the accu information contained herein. The (regardless of fault) to the vendee, to any direct, special or consequential of	racy, completeness, or adequacy of the ne manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information.	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE	EALTH EE SECTION VI	3	SPECIAL STORY
expressed or implied, as to the accuinformation contained herein. The (regardless of fault) to the vendee, the any direct, special or consequential of with the accuracy, completeness, ade SECTION III – PHYSICAL/CHEMICA Boiling Point	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S	EALTH EE SECTION VI	2.5	SPECIAL O
expressed or implied, as to the accuration contained herein. The frequency of fault of the vendee, the factor of the factor of the vendee, the factor of the vendee of the vendee, the vendee of the vendee of the vendee of the vendee, the vendee of the vendee of the vendee of the vendee, the vendee of the ven	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F)	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S pH (Neat) pH (100 ppm in v	EALTH EE SECTION VI vater)	2.5	SPECIAL D SPECIAL D 5 to 5 (Acidic) 6.5
expressed or implied, as to the accuration contained herein. The fregardless of fault) to the vendee, the frequency of the accuracy, completeness, ade section III – PHYSICAL/CHEMICA Boiling Point Vapor Pressure (mmHg) Density Solubility in Water	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F)	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S pH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1)	EALTH EE SECTION VI vater)	2.5	special 0
expressed or implied, as to the accuration contained herein. The fregardless of faulth to the vendee, it can direct, special or consequential of with the accuracy, completeness, ade section III – PHYSICAL/CHEMICA Boiling Point Wapor Pressure (mmHg) Density Solubility in Water Solub Appearance and Odor	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S pH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1)	EALTH EE SECTION VI vater)	2.5	special 0
expressed or implied, as to the accuration contained herein. The fregardless of faulth to the vendee, it can direct, special or consequential of with the accuracy, completeness, ade section III – PHYSICAL/CHEMICA Boiling Point Wapor Pressure (mmHg) Density Solubility in Water Solub Appearance and Odor Greer	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we to pale yellow liquid with a pung	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S pH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1)	EALTH EE SECTION VI vater)	2.5	special 0
expressed or implied, as to the accumformation contained herein. The fregardless of faulth to the vendee, it can direct, special or consequential of with the accuracy, completeness, ade section III – PHYSICAL/CHEMICA Boiling Point Wapor Pressure (mmHg) Density Solubility in Water Solub Appearance and Odor Greer SECTION iv – Fire and Exploit Flash Point (Method Used)	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we to pale yellow liquid with a pungosion Hazard Data	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S PH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1) vater.	EALTH EE SECTION VI vater)	2.5 -3	special 0
expressed or implied, as to the accumplementary implied, as to the accumplementary in the vender of	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we to pale yellow liquid with a pung	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S PH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1) vater.	EALTH EE SECTION VI vater)	2.5	special 0
expressed or implied, as to the accumformation contained herein. The fregardless of faulth to the vendee, it can direct, special or consequential of with the accuracy, completeness, ade with the accuracy, completeness, ade section III – PHYSICAL/CHEMICA Boiling Point Wapor Pressure (mmHg) Density Solubility in Water Solub Appearance and Odor Greer SECTION iv – Fire and Exploit (Method Used) Close Extinguishing Media Water fog, carbon diox	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we to pale yellow liquid with a pungosion Hazard Data	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S PH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1) vater.	EALTH EE SECTION VI vater)	2.5 -3	SPECIAL 0
expressed or implied, as to the accuinformation contained herein. The (regardless of fault) to the vendee, it any direct, special or consequential of with the accuracy, completeness, ade with the accuracy, completeness, ade section III – PHYSICAL/CHEMICA Boiling Point Wapor Pressure (mmHg) Density Solubility in Water Solub Appearance and Odor Greer SECTION iv – Fire and Exploit Flash Point (Method Used) Close Extinguishing Media Water fog, carbon diox Special Fire Fighting Procedures	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we to pale yellow liquid with a pungusion Hazard Data d cup: >100°C (212°F) (Pensky-lexide, foam, dry chemical.	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD – S pH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1) vater. gent (strong) odd Hartens	EALTH EE SECTION VI vater) or	2.5 -3	SPECIAL 0
expressed or implied, as to the accuinformation contained herein. The (regardless of fault) to the vendee, it any direct, special or consequential of with the accuracy, completeness, ade with the accuracy, completeness, ade section III – PHYSICAL/CHEMICA Boiling Point Wapor Pressure (mmHg) Density Solubility in Water Solub Appearance and Odor Greer SECTION iv – Fire and Explote Flash Point (Method Used) Close Extinguishing Media Water fog, carbon diox Special Fire Fighting Procedures	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we to pale yellow liquid with a pungosion Hazard Data d cup: >100°C (212°F) (Pensky-liquid with a pungosion Hazard Data	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD – S pH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1) vater. gent (strong) odd Hartens	EALTH EE SECTION VI vater) or	2.5 -3	SPECIAL 0 SPECIA
expressed or implied, as to the acculinformation contained herein. The fregardless of faulth to the vendee, it any direct, special or consequential of with the accuracy, completeness, ade with the accuracy, ade with the accuracy, ade	racy, completeness, or adequacy of the manufacturer shall not be liable the vendee's employees, or anyone for damages arising out of or in connection quacy, or furnishing of such information. L CHARACTERISTICS 100°C (212°F) 0.01 mm of Hg (@20°C) 1.01 to 1.03 (20°C / 68°F) le in cold water. Soluble in hot we to pale yellow liquid with a pungusion Hazard Data d cup: >100°C (212°F) (Pensky-lexide, foam, dry chemical.	3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICA * = CHRONIC HE HAZARD - S pH (Neat) pH (100 ppm in v Melting Point Evaporation Rate (Water = 1) vater. Jent (strong) odd Martens) Flace	EALTH EE SECTION VI vater) or ammable Limits cus (SCBA) and	2.5 -3 LEL NA	SPECIAL 0

Section V - Rea	activity Dat	а				Microbiocide 28-I			
Stability	Unstable	<u>-</u>	Conditions to Avoid			Wild Oblected 20 1			
				oove 50°C as	decomposition may incre	ase packaging pressure.			
	Stable	X							
Incompatibility (Materials to Avoid)									
Strong acids, strong bases, strong oxidizers, reducing agents, amines and mercaptans. Hazardous Decomposition or Byproducts Thermal decomposition of product can produce toxic vapors of sulfur dioxide, hydrogen chloride, and oxides of nitrogen.									
Section VI – Hea	•	•	luct can produce toxic vapo	rs of sultur alc	oxide, nydrogen chioride,	and oxides of nitrogen.			
			1.11.0						
Route(s) of Entry:		``	alation? Skir Yes Yes	S	Eyes? Yes	Ingestion? Yes			
Health Hazards (Acute and Chronic) EYE: Very hazardous in case of eye contact (irritant, corrosive). Inflammation of the eye is characterized by redness, watering and itching. SKIN: Very hazardous in case of skin contact (corrosive, irritating). Skin contact									
						stering. INHALATION: May			
			of the undiluted product. Ef		nd on solution strength and	d length of time of exposure.			
			to be a primary route of exp						
Toxicity: Acute (0 mg/kg Rat 0 mg/kg Rabbit		e Inhalation LC50 = 1.4 n e Inhalation LC50 = 1.5 n	ng/l (4 hours) Female rat.			
Environmental To			mg/l 48 hours Daphnia mag		e innalation LC50 = 1.5 fi) = 0.28 mg/l 96 hours Bl				
Environmental re			mg/l 96 hours Rainbow trou		0 = 0.20 mg/l 30 hours She				
			mg/l 96 hours Sand shrimp) = 1.9 mg/l 96 hours Bay				
Carcinogenicity: Not shown as carcinogenic by OSHA, IARC, or NTP.									
Emergency and	First Aid Pro	cedures	gerne by Gerna, marce, or re						
EYE: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed									
			nal, preferably an ophtha						
SKIN: Wash ex	posed area	with ple	nty of water. Repeat wa	shing. Remo	ove contaminated cloth	ning and wash thoroughly			
			nsult a health care profe						
						sea, headache, dizziness,			
			otic, seek a health care p						
						: Irrigate the esophagus			
and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY									
			stion of the product seek	medical ass	istance immediately.				
			Handling and Use						
Steps to be Taken in Case Material is Released or Spilled Initially minimize area affected by the spill. Block any routes to water systems. Recover as much of the pure product as possible into appropriate containers. Spill or leak residuals may have to									
be collected and disposed of. Clay, soil, or commercially available absorbents may be used to contain the spill.									
Waste Disposal Method									
Contact appropriate local, state, and federal regulatory agencies before discharging or disposing of waste material.									
Precautions to Be Taken in Handling and Storing Keep container closed when not in use. Store in a cool, dry place.									
Do not breathe mists or get in eyes, skin, or clothing. Wash hands thoroughly after handling.									
Other Precautions Wear safety goggles or face shield, rubber gloves, hat, long sleeve shirt, long pants, and									
boots when working where misting may occur or where exposure to the product may occur.									
DOT Shipping Information: UN3265, Corrosive Liquid, Acidic, Organic, N.O.S., (5-Chloro-2-methyl-4-isothiazonline-3-one, 2-Methyl-4-isothiazolin-3-one, Class 8, P.G. II, (ERG Guide 153)									
Section VIII – Control Measures									
Respiratory Protection (Specify Type) When misting may occur in the work area, a NIOSH/MSHA approved respirator may be required. Use a respirator approved for the material and level of exposure. Eye wash fountains in the area strongly recommended.									
Ventilation		al Exhaus		.pood.oyo	Special	a changi, rosoninionacai			
		Yes			. NA				
		chanical (Yes	General)		Other NA				
Protective Gloves					1.01				
	Che		sistant gloves						
Other Protective Clothing or Equipment If splashing can occur, a face shield is advisable. Indirect ventilation goggles, body-protective clothing, and chemical resistant safety shoes.									
Work/Hygienic Practices The handling precautions for this product are based on the characteristics of the neat product									
unless otherwise specified.									