



***SANI-MARC**

*Les Produits. Et les Hommes.
People and Their Products.*

Material Safety Data Sheet

WHMIS	TDG Road/Rail

Section I. Product Identification and Uses

Trade name	ALGICIDE 5% (CLEARWATER)	Health Hazard	*	1
Code	30-13010	Fire Hazard		0
Supplier	CLEARWATER C.P. 25, Victoriaville, (Qc) G6P 6S4	Reactivity		0
Manufacturer	SANI-MARC INC. 42 boul. de l'Artisan, Victoriaville, Qc (819) 758-1541	Personal Protection		B
Material uses	Consumer products: Controls algae in swimming pool waters.	Protective Clothing 		
		Governmental Approbations PCP# 26940		

Section IA. First Aid Measures

Eye contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used.
Skin contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
Hazardous skin contact	No additional information.
Slight inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous inhalation	No additional information.
Slight ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Hazardous ingestion	No additional information.

Section II. Hazardous Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Ethanol	64-17-5	0-1	TWA: 1000 (ppm) from ACGIH [1989].	ORAL (LD50) mg/kg: Acute: 7060 (Rat). DERMAL (LD50) mg/kg: Acute: 20000 (Rabbit). VAPOR (LC50) ppm : Acute: 31623 (Rat.) (4 hour(s)).
Alkyl diméthyl benzyl ammonium chloride	68424-85-1	1-5	TWA: 1000 (ppm)	ORAL (LD50) mg/kg: Acute: 330 (Rat). 7060 (Rat). DERMAL (LD50) mg/kg: Acute: 1182 (Rat).

Section III. Physical Data

Physical state and appearance	Liquid. (Transparent liquid)	Color	Blue. (Dark.)
pH (Pure)	7.75 (Basic.)	Odor	Characteristic.
pH (1% soln/water)	7.75 (Conc. (% w/w): 1) [Basic.]		
Odor threshold	Not available.		
Volatility	Not available.		
Freezing point	May start to solidify at 0°C (32°F) based on data for: Water.		
Boiling/Condensation point	The lowest known value is 100°C (212°F) (Water).		
Specific gravity	0.996 (Water = 1)		
Vapor density	The highest known value is 1 (Air = 1) (Water).		
Vapor pressure	The highest known value is 17.2 mm of Hg (@ 20°C) (Water).		
Evaporation rate	Not available.		
Viscosity	Not available.		
Water/oil dist. coeff.	The product is much more soluble in water.		
Ionicity (surface active agent)	Cationic.		
Critical temperature	Not available.		
Instability temperature	Not available.		
Conditions of instability	No additional remark.		
Dispersion properties	See solubility in water, methanol, diethyl ether.		
Solubility	Easily soluble in cold water, hot water, methanol. Partially soluble in diethyl ether. Insoluble in n-octanol.		

Section IV. Fire and Explosion Data

The product is:	Non-flammable.
Auto-ignition temperature	Not applicable.
Fire degradation products	Not applicable.
Flash points	Not applicable.
Flammable limits	Not applicable.
Fire extinguishing procedures	Not applicable.
Flammability	Not applicable.
Risks of explosion	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Section V. Reactivity Data

Stability	The product is stable.
Hazardous decomp. products	Not available.
Degradability	Not available.
Products of degradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are as toxic as the original product.
Corrosivity	Not considered to be corrosive for metals and glass according to our database.
Reactivity	Reactive with oxidizing agents, reducing agents. Non-reactive with organic materials, metals.

Section VI. Toxicological Properties

Routes of entry	Absorbed through skin. Eye contact. Ingestion.
TLV	Ethanol TWA: 1000 (ppm) from ACGIH Consult local authorities for acceptable exposure limits.
Toxicity for animals	LD50: Not available. LC50: Not available.
Chronic effects on humans	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin. Non-hazardous in case of inhalation. Non-irritant for lungs. Non-sensitizer for lungs. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Ethanol].
Acute effects on humans	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin. Non-hazardous in case of inhalation.

Section VII. Preventive Measures

Waste information	Not available.
Waste stream	Not available.
Storage	No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.
Precautions	Do not breathe gas, fumes, vapor or spray. Keep away from incompatibles such as oxidizing agents, reducing agents.
Small spill and leak	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large spill and leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Protective clothing	Splash goggles. Full suit. Boots. Gloves.

Section VIII. Classification

TDG road / rail	Not controlled under TDG (Canada).	
	Not applicable.	
Maritime transportation	Not available.	
WHMIS	Not controlled under WHMIS (Canada).	
Federal and provincial regulations	No products were found.	

Section IX. Protective Measures

Protective clothing	Safety glasses. Lab coat. Gloves (impervious).	
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.	

Section X. Other Information

References	Not available.
No additional remark.	
Validated by Service Santé et Sécurité on 17/07/2003.	Verified by Service Santé et Sécurité. Printed 17/07/2003.

Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

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