

## Think Purity Algaecide

I. Chemical Product Identification	
MANUFACTURE'S NAME:	Regent Industries Co. Ltd.
ADDRESS:	4523 - 97st, Edmonton, AB, Canada, T6E 5Y8
EMERGENCY TELEPHONE NO.:	1-800-438-5042
TRADE NAME:	AGRO BOSS
SYNONYMS:	Zeolite
WHMIS CLASSIFICATION:	Not Available

II. Hazardous Ingredients & Toxicity			
Material or Component:	%	CAS #:	Toxicity Data LD <sub>50</sub> LC <sub>50</sub> , Species:
CITRIC ACID	10-30	000077929	ORAL (LD50) : Acute: 5040 mg/kg (Mouse). 3000mg/kg ra
Copper (II) Sulfate	5 - 6	007758-98-7	ORAL (LD50) : Acute: 300mg/kg (Rat). 369 mg/kg
Water	40-70	7732-18-5	ORAL (LD50) : Acute: 99999 mg/kg (Rat) Chronic: 99999 mg/kg (Rat) Dermal (LD50) : Acute: 99999 mg/kg (Rat) Chronic: 99999 mg/kg (Rat)

III. Health Hazard Information	
<b>Potential Acute Health Effects:</b>	
INHALATION	Hazardous
SKIN	Very Hazardous in case of skin contact (irritant)
EYE CONTACT	Very Hazardous in case of eye contact (irritant)
INGESTION	DO NOT induce vomiting.
Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes or eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or occasionally blistering.	
<b>Potential Chronic Health Effects</b>	
Carcinogenic Effects	Not Available
Mutagenic Effects	Not Available
Teratogenic Effects	Not Available
Developmental Toxicity	Not Available
Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.	

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IV. First Aid Measures	
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. COLD water may be used. Get medical attention immediately
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. COLD water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Hazardous Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. COLD water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Hazardous Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
Hazardous Ingestion	Not Available

V. Fire and Explosion Data	
The Product Is:	May be combustible at high temperature.
Auto-Ignition Temperature	Temperature Not available
Flash Points	Not available
Flammable Limits	Not Available
Products of Combustion	These products are carbon oxides (CO, CO <sub>2</sub> )
Fire Hazards in Presence of Various Substances	in Presence of Various Substances Slightly flammable to flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various	In Presence of Various Substances Risks of explosion of the product in presence of mechanical impact: Slightly explosive in presence of open flames and sparks.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Special Remarks on Fire Hazards	Not available

VI. Accidental Release Measures	
Small Spill	If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill	Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water in side container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas: dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at concentration level above TLV. Check TLV on the MSDS and with local authorities.

VII. Handling and Storage	
Precautions	Precautions Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT ingest. Do not breathe gas/ fumes/ vapor/ spray. Never add water to this product. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

VIII. Exposure Controls/Personal Protection	
Engineering Controls	Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Face shield. Full suit. Gloves. Boots. In case of insufficient ventilation, wear suitable respiratory equipment. Be sure to use a MSHA / NIOSH approved respirator or equivalent.
Personal Protection in Case of a Large Spill	Full Suit. Boots. Gloves. Self contained breathing apparatus. Be sure to use a MSHA / NIOSH approved respirator or equivalent.
Exposure Limits	TWA: 10 (ppm) from OSHA (PEL) (United States) TWA: 10 STEL: 15 (ppm) from ACGIH (TLV) (United States)

IX. Physical And Chemical Properties	
Physical State and Appearance	Liquid. Odor – Not available Taste – Not available Color - Green Molecular Weight Not applicable
pH (1% Soln/water)	Acidic
Boiling Point	100c (212f) (Water)
Melting Point	0c (32f) based on data for: Water.
Critical Temperature	Not Available
Specific Gravity	1.18 (Water = 1)
Vapor Pressure	The highest known value is 2.3 kPa (@20c(Water))
Vapor Density	The highest known value is 1 (Air = 1) (Water)
Volatility	100% (v/v). (Acetic acid.)
Odor Threshold	Not available.
Evaporation rate	Not Available
Viscosity	Not Available
Water/Oil Dist.	The product is much more soluble in water.
Ionicity (in Water)	Not Available
Dispersion Properties	See solubility in water, methanol.
Solubility	Easily soluble in cold water, hot water, methanol. Very slightly soluble in diethyl ether. Insoluble in n-octanol.

X. Stability and Reactivity Data	
Stability	The product is stable
Instability Temperature	Not Available
Conditions of Instability	Not Available
Incompatibility with various substances	Reactive with reducing agents. Slightly reactive to reactive with oxidizing agents, alkalis.
Corrosivity	Slightly corrosive in presence of steel, of aluminum, of zinc, of copper.
Special Remarks on Reactivity	Hazardous products of decomposition: By Fire: carbon monoxide, carbon dioxide, other potentially toxic fumes. (Citric Acid)
Special Remarks on Corrosivity	Not Available
Hazardous Polymerization	Will not occur.

## Think Purity Algaecide

XI: Toxicological Information	
Routes of Entry	Skin contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 300 mg/kg (Rat) (Copper (II) Sulfate).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of eye contact (irritant). Hazardous in case of ingestion, of inhalation. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or occasionally blistering.
Special Remarks on Toxicity to Animals	Not Available
Special Remarks on Chronic Effects on Humans	Not Available
Special remarks on other Toxic Effects on Humans	Persons with preexisting eye, skin or respiratory tract disorders may be more susceptible to the effects of this product. (Citric Acid)

XII: Ecological Information	
Ecotoxicity	Not Available
BOD5 and COD	Not Available
Products of Biodegradation	These products are carbon oxides (CO, CO2) and water.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not Available

XIII: Disposal Considerations	
Waste Disposal	Waste Disposal Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

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XIV: Transportation Information	
TDG Classification	Class 8: Corrosive material Class 9.2: Environmentally hazardous material.
Shipping name	CORROSIVE LIQUIDS, N.O.S. (Citric acid, Copper sulfate)
PIN	UN1760
Packing Group	III
Special Provisions for Transport	No additional remark.

XV: Other Regulatory Information	
Other Regulations	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

XVI: Other Information	
References	Not Available
Other Special Considerations	The shipping document must indicate "Marine Pollutant" if transported by ship. (Copper Sulfate)

PRODUCED BY:	DATE:	ADDRESS:
AxSys Safety Officer	20/03/2013	4523-97 Street, Edmonton, AB
		1-866-543-5276

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