SAFETY DATA SHEET

Anodize Algaecide

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Anodize Algaecide**
Product code:	5037
Recommended use of the chemical and restrictions on use:	Biocide For Industrial Use Only
Chemical family:	Mixture.
Name, address and phone # of supplier:	Aqua Bond Inc. PO Box 63635, Woodside Square Toronto, ON, M1V 5J8 (416) 754-7211
24 Hr. Emergency phone #	**CANUTEC (613) 996-6666**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:
ACUTE TOXICITY, INHALATION - CATEGORY 2
ACUTE TOXICITY, ORAL- CATEGORY 4
SKIN CORROSION- CATEGORY 2
SERIOUS EYE DAMAGE- CATEGORY 2A
SENSIZATION, SKIN - CATEGORY 1
HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE HAZARD - CATEGORY 3

Label elements:



Signal word: DANGER

Hazard statements:
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to blood, liver, kidney, respiratory system and CNS through inhalation or absorption.
H372 Causes damage to kidneys through prolonged or repeated exposure.

Precautionary statements:
P210 Keep away from heat/sparks/open flame/hot surfaces. No smoking.
P233 Keep container tightly closed.

P280 Wear protective gloves/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P260 Do not breathe dust/fumes/mist/vapours/spray.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use dry chemicals, CO2, alcohol foam or water spray.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P330+P331 Rinse mouth. Do NOT induce vomiting.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235 Keep is a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards: Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Mixture

Ingredient name	**CAS Number**	**Concentration (%)**
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	70 to 90
Water	7732-18-5	15 to 30
Hydrogen Orthoborate	10043-35-3	1 -10

Concentrations are shown as ranges due to batch variation.

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion: Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Get medical help immediately.

Inhalation: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately.

	Maintain an open airway.
Skin contact	Get medical attention immediately. Call a poison center or physician. Rinse immediately contaminated clothing and skin with plenty of water. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye contact	Get medical attention immediately. Call a poison center or physician. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open. Chemical burns must be treated promptly by a physician. Washing eyes within several seconds of exposure is essential to minimize damage.

Most important symptoms and effects, both acute and delayed:
The substance is irritating to skin, eyes and respiratory tract. Exposure could cause lowering of consciousness. Exposure could cause the formation of methaemoglobin. Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system and liver. The substance is possibly carcinogenic to humans. Inhalation of the vapour may cause lung oedema. The substance may cause effects on the energy metabolism, resulting in acidosis.
Indication of any immediate medical attention and special treatment needed:
Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable	Use dry chemicals, carbon dioxide, alcohol foam or water spray.
Unsuitable	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance:	On contact with hot surfaces or flames this substance decomposes forming toxic and corrosive fumes. Gases hazardous to health may be formed.
Hazardous thermal decomposition products:	Corrosive and irritating fumes.
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator for organic gases at all times. Put on appropriate personal protective equipment.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up:	Small spill: Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material such as sand and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Special spill response procedures:	In case of transportation accident, contact CANUTEC (613) 996-6666.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Put on appropriate personal protective equipment. Avoid exposure -obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be resealed and kept upright. Do not store in unlabeled containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls:	Use with proper ventilation to keep worker exposure to airborne contaminants below any recommended or statutory limits. Good general ventilation (typically 10 air changes per hour) should be used with air makeup unit. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures:	Eyes/face: Chemical splash goggles and face shield. Skin: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Respiratory: Wear appropriate respirator when ventilation is inadequate. Be sure to use a NIOSH approved respirator or equivalent.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Amber Liquid.
Odor:	Pungent.
Odor threshold:	Not available.
pH (as is):	6
Melting point:	Not available.
Freezing point:	Not available.
Initial boiling point and boiling range:	~100°C
Flash point:	93.9°C
Evaporation rate:	Estimated slower than ethyl ether
Flammability:	Flammable.
Upper and lower flammability	ND

limits:	ND
Vapour pressure:	Not available.
Vapour density:	Estimated lighter than air.
Relative density:	1.15
Solubility:	Immiscible.
Partition coefficient n-octanol/water:	Miscible in water
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical stability:	Stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	When exposed to excess heat (over flash point) and incompatible materials, fire may be caused.
Incompatible materials:	Strong oxidizing agents. Strong Acids. Contact with strong oxidizers may cause fire or explosion.
Hazardous decomposition products:	Substance decomposes on heating and on contact with strong acids producing carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:	SKIN AND EYES: yes INHALATION: yes INGESTION: yes
Potential health effects (acute):	EYE: Causes serious eye damage. Redness, pain, severe deep burns and blurred vision. SKIN: Causes skin irritation. May cause an allergic skin reaction. INHALATION: Not likely, due to the form of the product. INGESTION: Harmful if swallowed. Sore throat, burning sensation, abdominal pain, cramping, vomiting, diarrhea.
Symptoms related to the physical, chemical, and toxicological characteristics.	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

Information on toxicological effects Acute toxicity	Fatal if inhaled. Harmful if swallowed. May cause an allergic skin reaction.

SECTION 12 ECOLOGICAL INFORMATION

Product		Species:	Test Results
1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol			
Aquatic			
Acute			
Crustacea	EC50	Crustacea	26.1 mg/l, 48 hours
Fish	LC50	Fish	119 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available
Mobility in the soil	No data available
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	TDG
UN Number:	UN2902
UN proper shipping name:	Pesticides, Liquid, Toxic, N.O.S. (Hexahydro 1,3,5 - Tris (2-Hydroxyethyl) Triazine
Transport hazard class:	6.1
Packing group:	II
Environmental hazard:	No.
Special precautions for user:	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

Canada inventory (DSL):	All components are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS 225-208-0, Japan (ENCS 5-998), Canada (DSL 4719-04-4) and Australia (AICS 4719-04-4). This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard. 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

Revision date: August 31, 2023
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

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