

Aquacide 200

SECTION 1. IDENTIFICATION

Product Identifier	Aquacide 200
Other Means of Identification	B.N.P.D. Biocide
Recommended Use	Water Conditioner.
Restrictions on Use	Prevent accidental release to the environment.
Manufacturer/Supplier Identifier	Alliance Water Group Inc., 1 Yonge Street, Suite 1801, Toronto, ON, MSE 1W7, 416-306-2480
Emergency Phone No.	CANUTEC, 613-996-6666, 24 Hour Emergency Line
Date of Preparation	May 03, 2017

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Skin irritation - Category 2; Serious eye damage - Category 1; Specific target organ toxicity (single exposure) - Category 3; Aquatic hazard (Acute) - Category 2; Aquatic hazard (Chronic) - Category 2

Label Elements



Signal Word:

Danger

Hazard Statement(s):

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands and skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.

Response:

P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor.
P332 + P313	If skin irritation occurs: Get medical advice or attention.

Product Identifier: Aquacide 200

Date of Preparation: May 03, 2017

P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
Disposal:
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Bronopol	52-51-7	5-15	2-bromo-2-nitro-1,3-propanediol

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove to fresh air and rest in a position comfortable for breathing. Seek medical attention if symptoms occur.

Skin Contact

Immediately wash with soap and water. Remove contaminated clothing/footwear. Get medical attention if irritation persists. Wash clothing before reuse.

Eye Contact

Rinse eyes with plenty of water, making sure to get under the upper and lower eyelids. If applicable, remove contact lenses after 5 minutes and continue to flush eye after removal. Get medical attention immediately.

Ingestion

DO NOT induce vomiting. Dilute with plenty of water or milk. Never give anything by mouth to a convulsing or unconscious patient. Get medical attention immediately.

First-aid Comments

If medical advice is needed, have product container or label at hand. Consideration should be given to the possibility that over exposure to materials other than this product may have occurred.

Most Important Symptoms and Effects, Acute and Delayed

Refer to "Section 11: Toxicological Information".

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use CO₂, dry powder or alcohol resistant foam.

Unsuitable Extinguishing Media

Water jet.

Specific Hazards Arising from the Product

Oxides of Nitrogen. Hydrogen Bromide.

Special Protective Equipment and Precautions for Fire-fighters

Exercise caution when fighting any chemical fire. Fire fighters protective clothing will only provide limited protection. Wear chemical protective clothing, including respiratory protection. Move containers from the area on fire if it can be done without risk.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Equip clean-up crew with proper protection. Ensure the area is well ventilated and use appropriate respiratory

Product Identifier: Aquacide 200

Date of Preparation: May 03, 2017

Page 02 of 06

protection if it isn't. Evacuate unnecessary personnel. Always use appropriate personal protective equipment (PPE). Do not touch and avoid walking through spilled material. Do not touch damaged containers unless equipped with PPE. As an immediate precautionary measure, isolate spill or leak if it can be done safely. Eliminate all ignitions sources (Smoking, flares, sparks, or flames). Ventilate closed areas before entering. If outdoors, stay upwind.

Environmental Precautions

Avoid run off and prevent entry to waterways, sewers, and public waters. Dispose of waste in accordance with local, regional, national, and/or international regulations.

Methods and Materials for Containment and Cleaning Up

Clean up spill immediately and dispose of waste safely. Stop leak and isolate spill if it can be done safely. For more information on safe disposal, please refer to "Section 13: Disposal Considerations".

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Before use carefully read the product label. Always handle empty containers with care as they may retain residual product. Ensure ventilation is adequate when using this product. Handle in accordance with good industrial hygiene and safety procedures. Wash hands or other exposed areas thoroughly with soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage

Ensure containers are properly labelled and protected from physical damage when not in use. Check regularly for leaks or spills. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from combustible substances and away from heated areas, sparks and flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Consult local authorities for provincial or state exposure limits.

Appropriate Engineering Controls

Use adequate ventilation to control the concentration of airborne contaminants and ensure it stays below the applicable exposure limit values. Gas detectors should be used when gases or vapours are released. Ensure all local/national regulations are met.

Individual Protection Measures

Eye/Face Protection

Use proper protective equipment. Wear safety goggles and protective gloves when handling this product. Avoid dermal exposure. In case of insufficient ventilation, or if exposure limits are exceeded or symptoms are experienced, use a NIOSH/MSHA approved respirator. Always handle product in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear yellow liquid.
Odour	Pungent
Odour Threshold	Not available
pH	6.6
Melting Point/Freezing Point	0 °C (melting); 0 °C (freezing)
Initial Boiling Point/Range	100 °C
Flash Point	Not available
Flammability (solid, gas)	Not applicable (liquid).
Vapour Pressure	18 mm Hg
Relative Density (water = 1)	1.05
Solubility	Soluble in water

Product Identifier: Aquacide 200

Date of Preparation: May 03, 2017

Page 03 of 06

Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Exposure to oxidizing materials.

Incompatible Materials

Oxidizing agents (e.g. peroxides).

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Bronopol	0.588 mg/L (rat) (4-hour exposure)	305 mg/kg (rat)	1600 mg/kg (rabbit)

WC 8315

LC50 (Inhalation): 5.90ppm

LD50 (Oral): 3075mg/kg

LD50 (Dermal): 16150mg/kg

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Irritation

Category 1

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause respiratory irritation.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

Ecotoxicity

No information was located.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae

Product Identifier: Aquacide 200

Date of Preparation: May 03, 2017

Page 04 of 06

Bronopol	41.2 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	1.6 mg/L (Daphnia magna (water flea); 48-hour)	Not available	0.37 mg/L (Selenastrum capricornutum (algae))
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Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Bronopol	Not available	Not available	Not available	Not available

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste in accordance with local, regional, national, and/or international regulations.

SECTION 14. TRANSPORT INFORMATION

This section is not required by WHMIS 2015. Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Please note: P.C.P. Registration Number: 24987

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

This section is not required by WHMIS.

Canada

WHMIS 1988 Classification



Class D1B



Class D2B

D1B - Toxic; D2B - Toxic

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

SECTION 16. OTHER INFORMATION

Date of Preparation May 03, 2017

Product Identifier: Aquacide 200

Date of Preparation: May 03, 2017

Key to Abbreviations NIOSH = National Institute for Occupational Safety and Health
OSHA = US Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer
ACGIH® = American Conference of Governmental Industrial Hygienists
NDA = No Data Available.

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Product Identifier: Aquacide 200

Date of Preparation: May 03, 2017

Page 06 of 06