

Aquacide 212

SECTION 1. IDENTIFICATION

Product Identifier	Aquacide 212
Other Means of Identification	Sodium Hypochlorite Solution
Recommended Use	Disinfectant, Odour Control, Laundry, Water, Sewage and Industrial Water Treatment.
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

SECTION 2. HAZARD IDENTIFICATION

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

Classification

Skin corrosion - Category 1; Serious eye damage - Category 1; Aquatic hazard (Acute) - Category 1

Label Elements



Signal Word:

Danger

Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

Precautionary Statement(s):

Prevention:

P260 Do not breathe dusts or mists.

P264 Wash hands and skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Sodium Hypochlorite	7681-52-9	5-15	NDA

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

None known.

Special Protective Equipment and Precautions for Fire-fighters

The decomposition products of sodium hypochlorite, such as chlorine and hydrogen chloride are extremely hazardous to health. 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 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

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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 green - yellow liquid.
Odour	Chlorine
Odour Threshold	Not available
pH	11.5 - 13.0
Melting Point/Freezing Point	-6 °C (melting); -6 °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)	1.15 - 1.21
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	-3.42 (estimated)
Decomposition Temperature	40 °C
Viscosity	Not available (kinematic); Not available (dynamic)

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Other Information

Physical State	Liquid
Molecular Formula	NaOCl

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Sodium hypochlorite solutions give off oxygen when heated or when exposed to sunlight.(14,15) However, the amount is small and will not cause or contribute to combustion. The solutions are, therefore, not considered to be oxidizing agents.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

High temperatures. Sunlight. Exposure to acids. Temperatures above 40 °C

Incompatible Materials

Metals. Acids.

Hazardous Decomposition Products

Corrosive chlorine. sodium chlorate.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium Hypochlorite	> 2625 mg/m ³ (male rat) (4-hour exposure)	5230 mg/kg (rat)	> 10000 mg/kg (rabbit)

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

Human experience and animal tests show skin corrosion.

Serious Eye Damage/Irritation

Human experience and animal tests show serious eye damage.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Sodium Hypochlorite	Not Listed	Not Listed	Not Listed	Not Listed

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
Sodium Hypochlorite	0.065 mg/L (Oncorhynchus)	Not available	Not available	Not available

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	mykiss (rainbow trout); 96-hour			
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Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Sodium Hypochlorite	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

This section is not required by WHMIS 2015. 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.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1791	HYPOCHLORITE SOLUTION	8	II

Special Precautions Not applicable

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

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

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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.

Disclaimer The information contained in this form is based on data from sources considered technically

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reliable and has been provided in good faith in accordance with the available material. It is provided as a service to the persons using the product but conditions of use and handling may involve other and additional consideration beyond our control. No warranty, expressed or implied, is made and we will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information in this form.