



Certified to
NSF/ANSI/CAN 60

**AQUAMARK, INC.
AQ 109
SAFETY DATA SHEET**

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**Emergency Telephone Numbers
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SECTION 1. IDENTIFICATION

PRODUCT NAME: AQ 109

Recommended use of the chemical and restrictions on use.

Use of the Substance/Mixture

Water treatment chemical

Recommended restrictions on use.

Do not use for other purposes than the identified uses.

SECTION 2. HAZARD(s) IDENTIFICATION

GHS Classification

The product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS-Labeling

Product is not hazardous under US GHS.

Hazard(s) not otherwise classified (HNOC) or not covered/classified by GHS

Advice; Forms slippery/greasy lawyers with water.

Potential environmental effects: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3.

COMPOSITION / INFORMATION ON INGREDIENT

Substance / Mixtures

Mixture

Chemical Nature: Anionic Polyacrylamide.

Contains no hazardous ingredients according to GHS.

Further information.

This material is not hazardous under the criteria of Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4.

FIRST-AID MEASURES

Description of the first aid measures.

General advice

For personal protection see section 8.

Inhalation

No hazards which require special first aid measures. Remove to fresh air.

Skin contact

Wash off with soap and water.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If possible, use lukewarm water.

Ingestion

Rinse mouth with water. Call a physician if symptoms occur. Do Not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effect, both acute and delayed.

Symptoms: No information available.

Hazards: No information available.

Indication of immediate medical attention and special treatment needed, if necessary.

Treatment: Symptomatic treatment.

SECTION 5.

FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture.

Dust may form explosive mixture in air.

Special protective actions for fire-fighters.

Wear self-contained breathing apparatus and protective suit.

Use MIOSH/MSHA approved respiratory protection.

Further information.

In the event of fire, cool tanks with water spray.

SECTION 6.

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures.

For personal protection see Section 8.

Environmental precautions

Should not be released into the environment.

Methods and materials for containment and cleaning up.

Product becomes slippery when it is wet. Take up mechanically and collect into suitable containers for disposal. After cleaning, flush away traces with water.

Additional advice.

For personal protections see section 8.

SECTION 7.

HANDLING AND STORAGE

Precautions for safe handling.

Avoid dust formation during handling. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities.

Store in original container.

Materials for packing.

Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

Materials to avoid.

Strong oxidizing agents.

Storage stability.

Storage temperature 40 – 90°F
Other data Reason: Integrity

SECTION 8.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters.

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Contains no substances with occupational exposure limits values.

Appropriate engineering controls.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Ensure that eyewash station and safety showers are close to the workstation location. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment industrial hygiene.

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection.

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Hand protection.

Glove material: Impervious gloves, Permeability tests are not available for this product.

Please observe the Instructions permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection.

Protective clothing.

Eye protection.

Safety goggles

SECTION 9.**PHYSICAL & CHEMICAL PROPERTIES**

Information on basic physical and chemical properties.

Physical State	Liquid	
Form	thick	
Color	White	
Odor	Odorless	
Odor Threshold	Not applicable	
PH	7 – 9	Concentration: 0.5% (aqueous solution)
Freezing Point/Melting Point	Not determined.	
Initial boiling point and boiling Range.	Not applicable	
Flash point	Not applicable	
Evaporation rate	No data available.	
Flammability (solid, gas)	Not flammable	
Explosive properties:		
Lower explosion limit	No data available	
Upper explosion limit	No data available	
Oxidizing properties	The substance or mixture is not classified as oxidizing.	
Vapor pressure	Not applicable	
Relative vapor density	No data available	
Density	No data available	
Relative density	No data available	
Bulk density	650 – 850 kg/m ³	
Solubility(ies):		
Water solubility	Limited by viscosity.	
Partition coefficient:		
Noctano/water	Not applicable.	
Auto-ignition temperature	> 150°C	
Decomposition temperature	302°F	
Viscosity:		
Viscosity, dynamic	Not applicable	
Viscosity, kinematic	No data available	
Oxidizing potential	The substance or mixture is not classified as oxidizing.	
Surface tension	Not applicable	

SECTION 10.

STABILITY & REACTIVITY

Reactivity	No data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Material is stable under normal conditions.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Ammonia Carbon dioxide (CO ₂) Carbon Monoxide (CO) Nitrogen oxides (NO _x)

SECTION 11.

TOXICOLOGICAL INFORMATION

Information on toxicological effects.

Acute oral toxicity	Conclusion: The following toxicological data shown are those obtained from tests on products of similar composition. LD ₅₀ /Rat/> 5,000 mg/kg
Acute inhalation toxicity	LC ₅₀ /Rat/4 h/> 20 mg/l Remarks: estimated.
Skin corrosion/irritation	Conclusion: no skin irritation
Serious eye damage/eye Irritation	Conclusion: No eye irritation
Respiratory or skin sensitization	
Skin sensitization	Conclusion: Not sensitizing.
Germ Cell mutagenicity	
Genotoxicity on Vivo	Conclusion: Based on available data, the classification criteria are not met.
Carcinogenicity	

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity

Toxicity for reproduction Conclusion: Based on available data, the classification criteria are not met

SECTION 12.

ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

LC50/96 h/Brachydanio rerio (zebra fish)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l

Remarks: Fresh water

Remarks: Ecotoxicological information provided is based on a structurally or compositionally similar product.

EC50/48 h/Daphnia magna (water flea)/Immobilization/OECD Test Guideline 202: > 100 mg/l

IC50/72 h/Selenastrum capricornutum (green algae)/Growth inhibition/OECD Test Guideline 202: > 100 mg/l

IC50/72 h/Selenastrum capricornutum (green algae)/Growth inhibition/OECD Test Guideline 201: > 100 mg/l

Toxicity to other organisms

No data available

Persistence and degradability

Biological degradability

CO₂ Evolution Test/OECD Test Guideline 301B/28 d: < 70%

The polymeric ingredient is not readily biodegradable, but degradable by hydrolysis.

Bioaccumulative potential

Partition coefficient: n-octanol/water: Not applicable

Mobility in soil

Water solubility: limited by viscosity.

Surface tension: Not applicable

Other adverse effects

No data available

SECTION 13.

DISPOSAL CONSIDERATIONS

Product

Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of it

in compliance with local regulations.

Contaminated packaging If recycling is not practicable, dispose of it in compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION

Land transport	Not classified as dangerous in the meaning of transport regulations.
Sea transport	Not classified as dangerous in the meaning of transport regulations.
Air transport	Not classifies as dangerous in the meaning of transport regulations.
Special precautions for user	No data available

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture.

SARA Title III Section 311 Categories

No SARA Hazards

SARA 302 Extremely Hazardous Substances

No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

SARA 313 – Specific Toxic Chemical Listings

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DE Minimis) reporting levels established by SARA Title III, Section 313

California Proposition 65

WARNING: This product contains a chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to

www.P65Warning.ca.gov

Acrylamide (79-06-1) < 0.05%

Notification status

USA: All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.

Canada: All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance list (DSL).

European Union: All components of this product are included in the European Inventory of Existing Chemical Substance (EINECS) or are not required to be listed on EINECS.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or not require to be listed on the Australian Inventory of Chemical Substances (AICS).

China: All Components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.

South Korea: All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) Inventory.

New Zealand: All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory (NZIoC).

Taiwan: All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory

SECTION 16.

OTHER INFORMATION

HMIS Rating

Health: 0
Flammability: 1
Reactivity: 0

NFPA Rating

Health: 0
Fire: 1
Reactivity: 0

Training advice

Read the Safety data sheet before using the product.

Further information

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This Safety Data Sheet is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200), and adoption of the UN Globally Harmonized System of Classification and labelling of Chemicals (GHS), Revision 3 by Kemira.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.

Revision Date:

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****NEW FORMAT***