NFPA Designation 704

DEGREE OF HAZARD

4 = EXTREME 3 = HI GH 2 = MODERATE 1 = SLI GHT 0 = I NSI GNI FI CANT FLAMMABILITY ()
HEALTH 2
REACTIVITY ()
SPECIAL COR

# FORMULA 4114

**SECTION 1: IDENTIFICATION** 

Aqualine Water Treatment Products Inc. 2371 Farrington Point Drive Winston-Salem. NC 27107

Emergency Telephone Chemtel: 800-255-3924

Rev.: 07/2008

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient (s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 15 for the nature of the hazard.

IngredientsCAS #Approx. %Sodium hydroxide1310-73-2<5%</td>Alkaline bromide saltsN/AN/A

**SECTION 3: HAZARD IDENTIFICATION** 

Potential Health Effects: **Emergency Overview:** 

WARNING: Causes irritation to skin and eyes. Do not get in eyes, on skin, or

on clothing. Do not take internally. Keep container closed when

not in use. Keep container away from heat and sunlight.

Empty Containers: May contain residual product. Do not reuse container unless

properly reconditioned.

Primary Route (s) of Exposure: Eye, Skin

Eye Contact: Can cause mild, short lasting irritation. Skin Contact: Can cause mild, short lasting irritation.

Ingestion: Give several glasses of water or milk. Do not induce vomiting.

Inhalation: May cause irritation to the respiratory tract and lungs.

Symptoms of Exposure: A review of available data does not identify any symptoms from

exposure not previously mentioned.

Aggravation of Existing Conditions: No data.

**SECTION 4: FIRST AID MEASURES** 

Eyes: Flush with water for 15 minutes holding eyelids open. Call a

physician.

Skin: Immediately flush with water for at least 15 minutes. For a large

splash, flood body under a shower. Call a physician.

Ingestion:

Do not induce vomiting. Give water. Call a physician.

Remove to fresh air. Treat symptoms. Call a physician.

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Note to Physicians: Based on the individual reactions of the patient, the physician's

judgment should be used to control symptoms and clinical

condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not

induce vomiting or give water.

**SECTION 5: FIRE FIGHTING MEASURES** 

Flash Point: None (PMCC) ASTM D-93

Extinguishing Media: Water spray, carbon dioxide, foam, dry chemical

Unusual fire and Explosion Hazard: Material is a strong oxidizer. May combine with various metals (at

decomposition) to form further flammable mixtures.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Liquid Spill: Contain with absorbent material such as clay or inert absorbent.

Shovel reclaimed liquid and absorbent into recovery or salvage

drums for disposal. Refer to CERCLA in Section 15.

Large liquid Spill: Dike to prevent further movement and reclaim into recovery or

salvage drums or tank truck for disposal. Refer to CERLA in Section 15. This product can be neutralized of its halogen (active ingredient) components by sprinkling sodium metabisulfite or

sodium sulfite on the spilled material.

For large indoor spills: Evacuate employees and ventilate area. Those responsible for

control and recovery should wear the protective equipment

specified in Section 8.

**SECTION 7: HANDLING AND STORAGE** 

Storage: Keep container closed when not in use.

Handling: Avoid contact with skin, eyes, and clothing

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION** 

Respiratory Protections: If it is possible to generate vapors or mists, a NIOSH approved or

equivalent respirator is recommended.

For large spills: Entry into large tanks, vessels or enclosed small spaces with

inadequate ventilations, a positive pressure, self contained

breathing apparatus is recommended.

Ventilation: General ventilation is recommended. Local ventilation is

recommended where misting can occur.

Protective Equipment: Use impermeable gloves, boots, apron, and a face shield with

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chemical splash goggles. Suitable impermeable gloves include neoprene, nitrile, PVC, natural rubber, viton and butyl. A full slicker suit is recommended if gross exposure is possible. The availability of an eye wash fountain and safety shower is recommended. If clothing is contaminated, remove and thoroughly wash the affected area. Launder contaminated clothing before reuse.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Form: Liquid

Color: Golden colored liquid

Water Solubility: Complete

Density: 11.9-12.1 lbs./gal. @ 68° F

 Specific Gravity:
 1.42-1.46 @ 68° F
 ASTM D-1298

 Viscosity:
 N/A
 ASTM D-2983

 pH (neat):
 >13
 ASTM E-70

Freeze Point: <12 deg F ASTM D-1177

Flash Point: none (PMCC) ASTM D-93

Note: These physical properties are typical values for this product but

are not absolute

#### **SECTION 10: STABILITY AND REACTIVITY**

Avoid contact with strong acids, (eg. Sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfamic) which can generate heat, splattering or boiling and the release of toxic fumes. Avoid contact with copper and iron.

Avoid contact with strong oxidizers (eg. peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions, and the release of toxic fumes.

Thermal Decomposition Products: In the event of combustion, nitrogen, bromine, hydrobromic acid vapors or gases may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicity Studies: Toxicity studies have been completed on this product. The

results are shown below:

Acute Oral Toxicity (Albino Rats): > 5,000 mg/kg Acute Dermal Toxicity (Albino Rats): > 2,000 mg/kg

Primary Skin Irritation Test (Albino Rabbits): No data Primary Eye Irritation Test (Albino Rabbits): No data

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SECTION 12: ECOLOGICAL CONSIDERATION

Results below are based on the product.

Aquatic Data: No data

#### **SECTION 13: DISPOSAL CONSIDERATION**

Disposal: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource and Recovery Act (RCRA) 40 CFR 261. It does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non- hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, clay or fly ash) so that no free liquid remains before disposal to a licensed industrial waste landfill. A non -hazardous liquid waste can also be deep well injected in accordance with local, state, and federal regulations.

#### **SECTION 14: TRANSPORT INFORMATION**

Proper shipping name/hazard class may vary by packaging, properties, and mode of transportation. Typical proper shipping names for this product are: (Note: After Jan 1, 2007, Aqualine 4114 will become: Corrosive liquid, n.o.s. (bromide salts); 8, UN1760, PG III)

All Transportation Modes: Compound Cleaning Liquid, (bromide salts)
Air Transportation: Compound Cleaning Liquid, (bromide salts)
Marine Transportation: Compound Cleaning Liquid, (bromide salts)

UN/ID No: NA1760 Hazard Class, Primary: 8 – Corrosive

Packaging Group: Ш IMDG Page No: ND IATA Packing Instruction: 808 IATA Cargo Aircraft Limit: 1.0 L Flash Point: None Technical Name: N/A RQ LBS (Per Package): N/A **RQ** Components: N/A

#### **SECTION 15: REGULATORY INFORMATION**

The following regulations apply to this product.

### **Federal Regulations:**

OSHA's Hazard Communication Rule, 29 CFR 1910.1200: Based on our evaluation there are no applicable

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hazardous components. CERLA/SUPERFUND, 40 CFR 117, 301: N/A

SARA/SUPERFUND AMENDMENTS ACT OF 1986 (TITLE III) – SECTIONS 302,311,312,AND 313: Section 302 – Extremely hazardous substances (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an extremely hazardous substance.

Sections 311 and 312 – Material Safety Data Sheet Requirements (40 CFR 370): Our hazard evaluation has found this product to be mildly hazardous due to skin and eye corrosivity. The product should be reported under the following EPA hazard categories:

Yes Immediate (acute) health hazard No Delayed (chronic) health hazard

No Fire hazard

Section 313 - List of Toxic Chemicals (40CFR 372): This product does not contain ingredients on the list of Toxic Chemicals.

Toxic Substance Control act (TSCA): The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

Food and Drug Administration: Federal Food, Drug, and Cosmetic Act: N/A

Resource Conservation and Recovery Act (RCRA), 40CFR 261 Subpart C and D: Consult Section 13 for RCRA classification.

Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15: N/A

**State Regulations:** 

California Proposition 65: None of the chemicals on the current Proposition 65 list are known to be

present in this product.

Michigan Critical Materials: This product does not contain substance (s) identified on this list.

State Right to Know Laws: N/A

#### **SECTION 16: OTHER INFORMATION**

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

N/A = Not Applicable ND = None Detected

All information appearing herein is based upon data obtained from the legislative and/or recognized technical sources. While the information is believed to be accurate, Aqualine makes no representation as to its accuracy or sufficiency. Conditions of use are beyond Aqualine's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of , or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.