

MATERIAL SAFETY DATA SHEET

NFPA Designation 704

DEGREE OF HAZARD
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

FLAMMABILITY	0
HEALTH	3
REACTIVITY	1
SPECIAL	0

FORMULA 4113

1. IDENTIFICATION

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

Emergency Telephone
Chemtel: 800-255-3924

Date: 09/2009

2. INGREDIENTS

Our hazard evaluation has identified the following chemical ingredients as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200.

NAME	CAS NO	% (W/W)
Sodium Hydroxide	1310-73-2	1.0 – 10.0
Sodium Hypochlorite	7681-52-9	6.0 – 8.0

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER: Corrosive. Causes severe eye and skin injury. Harmful if inhaled. Harmful if swallowed. Do not get in eyes, on skin or clothing. Wear goggles and face shield and rubber gloves when handling.

Remove and wash contaminated clothing before reuse. Wash thoroughly after handling.

PRIMARY ROUTES OF EXPOSURE: Eye, Skin, Inhalation

EYE CONTACT:

Corrosive. Will cause eye burns and may cause permanent tissue damage.

SKIN CONTACT:

May cause severe irritation or tissue damage depending on the length of exposure and the type of first aid administered.

INGESTION:

Corrosive; causes chemical burns to the mouth, throat and stomach.

INHALATION:

Irritating, in high concentrations, to the eyes, nose, throat and lungs.

4. FIRST-AID MEASURES

INHALATION:

Remove victim immediately from source of exposure.

Provide rest, warmth and fresh air.

If breathing stops, provide artificial respiration.

Get medical attention.

INGESTION:

Do not induce vomiting.

Rinse mouth thoroughly.

Drink lots of water.

Get medical attention.

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SKIN CONTACT:

Immediately remove contaminated clothing.
Rinse immediately with plenty of water.
Continue to rinse for at least 15 minutes.
Get medical attention if irritation persists after washing.

EYE CONTACT:

Rinse the eye with water immediately.
Continue to rinse for at least 15 minutes.
Contact physician if irritation persists.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use fire-extinguishing media appropriate for surrounding materials.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

No unusual fire and explosion hazards noted.

SPECIFIC HAZARDS:

Toxic gases/ vapors/ fumes of chlorine.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Restrict access to area as appropriate until clean-up operations are complete.
Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS:

Do not discharge into drains, watercourses or onto the ground.

SPILL CLEAN UP METHODS:

Absorb in vermiculite, dry sand or earth and place into containers.
Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

7. HANDLING AND STORAGE

HANDLING:

Do not get in eyes, on skin, on clothing.
Do not take internally.
Use with adequate ventilation.
Avoid generating aerosols and mists.
Keep the containers closed when not in use.
Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE CONDITIONS:

Store the containers tightly closed.
Store away from incompatible materials.
Store in suitable labeled containers.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING MEASURES:

Provide adequate general and local exhaust ventilation.

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RESPIRATORY EQUIPMENT:

If ventilation is insufficient, suitable respiratory protection must be provided. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory with combination filter (type A2/P2)

HAND PROTECTION:

Selection of a suitable glove depends on work conditions and weather the product is present on its own or in combination with other substances.

It has found that gloves made from rubber, neoprene or PVC provide short term splash protection.

EYE PROTECTION:

Use safety goggles and face shield in case of splash risk.

OTHER PROTECTION:

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

HYGIENE MEASURES:

Provide shower facilities near the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOR	Light Yellow
ODOR	Slight Chlorine
SPECIFIC GRAVITY	1.20 – 1.30
PH	12.5 – 13.7

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID:

Do not mix Formula 4113 with other chemicals. Formula 4113 should never be mixed with any amount of bleach. The resulting reaction is violently exothermic and will severely damage any non-metal bulk tanks.

Avoid excessive heat for prolonged period of time.

Avoid contact with strong reducing agents.

Avoid contact with acids.

HAZARDOUS POLYMERIZATION:

Will not polymerize.

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic gases/ vapors/ fumes of: Chlorine.

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11. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Absorb in vermiculite or dry sand, dispose in licensed special waste.
Do not allow runoff to sewer, waterway or ground.
Dispose of waste and residues in accordance with local authority requirements.

12. SHIPPING INFORMATION

Proper shipping name: Hypochlorite Solution
Hazard class: 8
ID number: UN1791
Label/placard: Corrosive
Packing group: III

13. OTHER INFORMATION

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is prohibited by law.