

SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **AL-15**

Product Use: Cooling Water Microbiocide

BARCLAY WATER MANAGEMENT, INC.

55 Chapel Street
Newton, MA 02458
Telephone: 617-926-3400

Emergency Phone Number

CHEMTREC
1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Ratings:

Skin corrosive	1B	Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Aquatic toxicity	A1	Acute toxicity <= 1.00 mg/l

GHS Hazards

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see first aid instructions on SDS)
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

Signal Word: **Danger**



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Sodium hypochlorite 7681-52-9 10 to 20%			
Sodium hydroxide 1310-73-2 1 to 5%	2 mg/m3 TWA	2 mg/m3 Ceiling	NIOSH: 2 mg/m3 Ceiling

4. FIRST AID MEASURES

Inhalation:

Remove victim to fresh air and keep a rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Eye Contact:

Rinse the eye with water immediately. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue rinsing. Get medical attention promptly.

Skin Contact:

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

Ingestion:

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Notes to Physician:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point: N/A

LEL:

UEL:

Flammability of the Product:

Not Flammable.

Extinguishing Media:

Foam, Dry powder, Water spray, Carbon dioxide (CO2)

Further information:

No data available.

Specific hazards during fire fighting:

Thermal decomposition can lead to release of irritating gases and vapours.

Fire Fighting Methods:

Standard procedure for chemical fires. Cool containers / tanks with water spray.

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus. Splashproof protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Wear personal protective equipment (see section 8).

Environmental precautions:

Should not be released into the environment. Stop the leakage if possible.

Methods for cleaning up:

In case of large spillage, contain by damming up. Collect by pump. Take up mechanically and collect into suitable

containers for disposal. Must be disposed of in accordance with local and national regulations. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wear appropriate personal protective equipment when handling this product. Do not get in eyes or on skin. Rinse immediately contaminated containers, equipment and tools with water.

Storage:

Store at room temperature in the original container. Keep tightly closed. Avoid freezing. Do not apply heat or direct sunlight.

Materials for packaging:

Suitable material: original container, plastic (PE, PP, PVC).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Ensure adequate ventilation.

Occupational exposure controls:

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Control of environmental exposure:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Hand protection

Glove material: Nitrile rubber disposable gloves.

Eye protection

Safety glasses with side-shields. Maintain eyewash fountain in work area.

Skin and body protection

Maintain safety shower in work area. If conditions warrant, wear protective clothing such as boots, aprons and coveralls to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light Yellow	Odor: Chlorine
Vapor Pressure: ND	Odor threshold: ND
Vapor Density: ND	pH: 13
Melting point: ND	Freezing point: < 32 F
Solubility: Complete in water	Boiling range: ND
Flash point: ND	Evaporation rate: Similar to Water
Flammability: ND	Explosive Limits: ND
Partition coefficient (n- ND octanol/water):	Autoignition temperature: ND
Decomposition temperature: ND	Specific Gravity: 1.2
Grams VOC less water: ND	

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Incompatibility materials

Oxidizing agents, Acids, Metals

Hazardous reactions :

Hazardous polymerization does not occur.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours .

11. TOXICOLOGICAL INFORMATION**Mixture Toxicity****Component Toxicity**

1310-73-2 Sodium hydroxide
Dermal LD50: 1,350 mg/kg (Rabbit)

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			N/A

12. ECOLOGICAL INFORMATION**Ecotoxicity** Avoid contaminating waterways.**Component Ecotoxicity**

Sodium hypochlorite 96 Hr LC50 Pimephales promelas: 0.06 - 0.11 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 4.5 - 7.6 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.4 - 0.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.28 - 1 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.05 - 0.771 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.03 - <0.19 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 0.18 - 0.22 mg/L [static]
48 Hr EC50 Daphnia magna: 0.033 - 0.044 mg/L [Static]
96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Sodium hydroxide

13. DISPOSAL CONSIDERATIONS**Product:**

Must be disposed of in accordance with local and national regulations.

Contaminated Packaging:

Must be disposed of in accordance with local and national regulations. Rinse package before disposal.

14. TRANSPORT INFORMATION

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Hypochlorite Solutions	1791	III	8

15. REGULATORY INFORMATION

Massachusetts Right To Know Components

1310-73-2 Sodium hydroxide
7681-52-9 Sodium hypochlorite

New Jersey Right To Know Components

1310-73-2 Sodium hydroxide
7681-52-9 Sodium hypochlorite

Pennsylvania Right To Know Components

1310-73-2 Sodium hydroxide
7681-52-9 Sodium hypochlorite

The following chemicals are subject to reporting established by SARA Title III, Section 302.

- None

The following chemicals are subject to reporting established by SARA Title III Section 313.

- None

TSCA - All Components of this product are included in the United States TSCA Chemical Inventory.

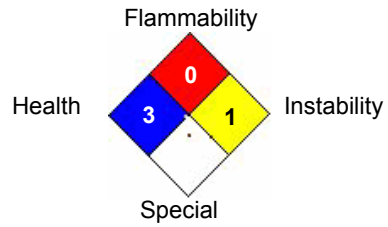
16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	D

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



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Disclaimer: All informaton, recommendatons and suggestons appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. Barclay Water Management, Inc. does not assume any liability arising out of the use by others of this product.