

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **PS 939**

Product Use: Boiler Water Treatment

### 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:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
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

### GHS Hazards

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

### 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.
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.
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
Potassium sulfite 10117-38-1 10 to 20%			
2-(Dimethylamino)ethanol 108-01-0 1 to 5%			
Potassium hydroxide 1310-58-3 1 to 5%		2 mg/m <sup>3</sup> Ceiling	NIOSH: 2 mg/m <sup>3</sup> Ceiling
Sodium polyacrylate 9003-04-7 1 to 5%			

### 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. Get medical attention promptly if symptoms occur after washing.

**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.

**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 (CO<sub>2</sub>)

**Further information:**

No data available.

**Specific hazards during fire fighting:**

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

Sulfur oxides.

**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. Store away from acids.

### Materials for packaging:

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

## 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

None under normal use.

### 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

<b>Boiling range:</b> ND	<b>Flash point:</b> ND
<b>Evaporation rate:</b> Similar to Water	<b>Flammability:</b> ND
<b>Explosive Limits:</b> ND	<b>Partition coefficient (n-ND octanol/water):</b>
<b>Autoignition temperature:</b> ND	<b>Decomposition temperature:</b> ND
<b>Specific Gravity:</b> 1.130513272	<b>Grams VOC less water:</b> ND
<b>Appearance:</b> Light Amber	<b>Odor:</b> Amine
<b>Vapor Pressure:</b> ND	<b>Odor threshold:</b> ND
<b>Vapor Density:</b> ND	<b>pH:</b> 12
<b>Melting point:</b> ND	<b>Freezing point:</b> < 32 F
<b>Solubility:</b> Complete in water	

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Incompatibility materials

Acids. Strong oxidizing agents.

## Hazardous decomposition products

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

## 11. TOXICOLOGICAL INFORMATION

### Mixture Toxicity

#### Component Toxicity

108-01-0 2-(Dimethylamino)ethanol  
Oral LD50: 1,803 mg/kg (Rat) Dermal LD50: 1,220 mg/kg (Rabbit) Inhalation LC50: 1,641 ppm (R)

<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

2-(Dimethylamino)ethanol 96 Hr LC50 Pimephales promelas: 81 mg/L [static]  
48 Hr EC50 Daphnia magna: 98.77 mg/L  
72 Hr EC50 Desmodesmus subspicatus: 35 mg/L

## 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	Corrosive Liquids, n.o.s. (Diethylaminoethanol, Potassium Hydroxide)	1760	II	8

## 15. REGULATORY INFORMATION

#### Massachusetts Right To Know Components

1310-58-3 Potassium hydroxide  
108-01-0 2-(Dimethylamino)ethanol

#### New Jersey Right To Know Components

1310-58-3 Potassium hydroxide  
108-01-0 2-(Dimethylamino)ethanol

#### Pennsylvania Right To Know Components

1310-58-3 Potassium hydroxide  
108-01-0 2-(Dimethylamino)ethanol

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.

SARA 311/312 - Chronic Health Hazard.

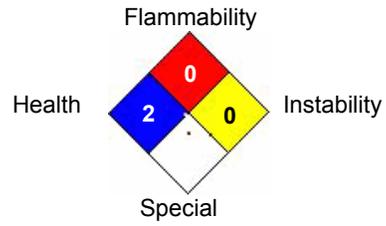
## 16. OTHER INFORMATION

**Hazardous Material Information System (HMIS)**

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

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

**National Fire Protection Association (NFPA)**



Date Prepared: 5/15/2015

---

**Disclaimer:** All information, recommendations and suggestions 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.