

4229

# Safety Data Sheet

Issue Date: 14-Jan-2001

Revision Date: 30-Oct-2015

Version 1

ASCI-0124BBD

## 1. IDENTIFICATION

### Product Identifier

Product Name Brilliant BBD

### Other means of identification

SDS # AQS-124BBD

Recommended use of the chemical and restrictions on use Silverware pre-soak solution that loosens dried food on silverware and flatware. Leaves like new finish.

### Details of the supplier of the safety data sheet

#### Supplier Address

Aqua Systems, Inc.  
P.O. Box. 397  
Arroyo Grande, CA 93420 Ph:  
805-489-9250

### Emergency Telephone Number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Clear, Blue liquid

Physical State Liquid

### Classification

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1                |

**Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

**Signal Word**

Danger

**Hazard Statements**

Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary Statements - Response

Immediately call a poison center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

### Precautionary Statements - Storage

Store locked up

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Other Hazards

Harmful to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                | CAS No    | Weight-% |
|------------------------------|-----------|----------|
| Potassium hydroxide          | 1310-58-3 | 1-10     |
| Tetrapotassium pyrophosphate | 7320-34-5 | 1-10     |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST AID MEASURES

### First Aid Measures

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Immediate medical attention is required.

#### Skin Contact

Remove contaminated clothing. Wash off immediately with plenty of water. If skin irritation persists, call a physician.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.

#### Ingestion

Do not induce vomiting. Rinse mouth. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor/physician.

### Most important symptoms and effects

**Symptoms** Causes severe eye damage. Exposed individuals may experience eye tearing, redness and discomfort. May include redness, drying and cracking of skin. May cause irritation to the mucous membranes and upper respiratory tract.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. Water.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical** Product is not flammable.

**Hazardous Combustion Products** Toxic fumes may be released.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protection recommended in Section 8.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.

**Methods for Clean-Up** Collect and reuse if possible. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Keep containers closed when not in use. Surfaces subject to spills of this product can become slippery. Do not breathe vapors or spray mist. Do not eat, drink or smoke when handling this product.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children. Store locked up.

**Incompatible Materials**

Strong oxidizing agents. Acids. Alkalis.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

| Chemical Name                 | ACGIH TLV                    | OSHA PEL                               | NIOSH IDLH                   |
|-------------------------------|------------------------------|--|------------------------------|
| Potassium hydroxide 1310-58-3 | Ceiling: 2 mg/m <sup>3</sup> | (vacated) Ceiling: 2 mg/m <sup>3</sup> | Ceiling: 2 mg/m <sup>3</sup> |

**Appropriate engineering controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Maintain eye wash fountain and quick-drench facilities in work area.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Wear safety glasses with side shields (or goggles).

**Skin and Body Protection**

Chemical resistant gloves recommended.

**Respiratory Protection**

Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                |                    |                |                |
|----------------|--------------------|----------------|----------------|
| Physical State | Liquid             |                |                |
| Appearance     | Clear, Blue liquid | Odor           | Not determined |
| Color          | Clear, Blue        | Odor Threshold | Not determined |

| <b><u>Property</u></b>       | <b><u>Values</u></b>  | <b><u>Remarks • Method</u></b> |
|------------------------------|-----------------------|--------------------------------|
| pH                           | 10.5 +/- 0.5          |                                |
| Melting Point/Freezing Point | Not determined        |                                |
| Boiling Point/Boiling Range  | 105.55 °C / 222 °F    |                                |
| Flash Point                  | Not determined        |                                |
| Evaporation Rate             | Not determined        |                                |
| Flammability (Solid, Gas)    | Liquid-Not applicable |                                |
| Upper Flammability Limits    | Not determined        |                                |
| Lower Flammability Limit     | Not determined        |                                |
| Vapor Pressure               | > 1                   |                                |
| Vapor Density                | Water based           | (Air=1)                        |
| Specific Gravity             | > 1.25                |                                |
| Water Solubility             | Completely soluble    |                                |
| Solubility in other solvents | Not determined        |                                |
| Partition Coefficient        | Not determined        |                                |
| Auto-ignition Temperature    | Not determined        |                                |
| Decomposition Temperature    | Not determined        |                                |

|                      |                |
|----------------------|----------------|
| Kinematic Viscosity  | Not determined |
| Dynamic Viscosity    | Not determined |
| Explosive Properties | Not determined |
| Oxidizing Properties | Not determined |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions None  
under normal processing.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

Strong oxidizing agents. Acids. Alkalis.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |   |
|--------------|---|
| Eye Contact  | Causes severe eye damage.   |
| Skin Contact | Causes severe skin burns.   |
| Inhalation   | May cause irritation to the mucous membranes and upper respiratory tract. |
| Ingestion    | May be harmful if swallowed.  |

### Component Information

| Chemical Name                             | Oral LD50           | Dermal LD50             | Inhalation LC50 |
|---|---------------------|-------------------------|-----------------|
| Potassium hydroxide<br>1310-58-3          | = 284 mg/kg ( Rat ) | -                       | -               |
| Tetrapotassium pyrophosphate<br>7320-34-5 | -                   | > 4640 mg/kg ( Rabbit ) | -               |

**Information on physical, chemical and toxicological effects****Symptoms**

Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Carcinogenicity**

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

Not determined



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

### Component Information

| Chemical Name                                | Algae/aquatic plants | Fish  | Toxicity to microorganisms | Crustacea                         |
|--|----------------------|---|----------------------------|-----------------------------------|
| Potassium hydroxide<br>1310-58-3             |                      | 80: 96 h Gambusia affinis<br>mg/L LC50 static |                            |                                   |
| Tetrapotassium<br>pyrophosphate<br>7320-34-5 |                      | 100: 96 h Oncorhynchus<br>mykiss mg/L LC50    |                            | 100: 48 h water flea mg/L<br>EC50 |

Persistence/Degradability Not determined.

Bioaccumulation Not determined.

### Mobility

| Chemical Name                 | Partition Coefficient |
|-------------------------------|-----------------------|
| Potassium hydroxide 1310-58-3 | 0.65                  |
|                               | 0.83                  |

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### California Hazardous Waste Status

| Chemical Name                 | California Hazardous Waste Status |
|-------------------------------|-----------------------------------|
| Potassium hydroxide 1310-58-3 | Toxic Corrosive                   |

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

Please contact manufacturer for most current information

**IATA**

Please contact manufacturer for most current information

**IMDG**

Please contact manufacturer for most current information

**15. REGULATORY INFORMATION****International Inventories**

All ingredients of this product are listed or exempt from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory

| Chemical Name                | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|------------------------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Potassium hydroxide          | Present | X   |      | Present |        | Present | X     | Present | X     | X    |
| Tetrapotassium pyrophosphate | Present | X   |      | Present |        | Present | X     | Present | X     | X    |

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations****CERCLA**

| Chemical Name                 | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-------------------------------|--------------------------|----------------|---|
| Potassium hydroxide 1310-58-3 | 1000 lb                  |                | RQ 1000 lb final RQ RQ<br>454 kg final RQ |

**SARA 313**

Not determined

**CWA (Clean Water Act)**

| Chemical Name       | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Potassium hydroxide | 1000 lb                     |                        |                           | X                          |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name                 | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Potassium hydroxide 1310-58-3 | X          | X             | X            |

**16. OTHER INFORMATION****NFPA****Health Hazards**

3

**Flammability**

0

**Instability**

0

**Special Hazards**

Not determined

**HMIS****Health Hazards**

3

**Flammability**

0

**Physical Hazards**

0

**Personal Protection**

Not determined

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Revision Note: New format

**Disclaimer**

The information provided in this 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

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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.

End of Safety Data Sheet