



# Safety Data Sheet

Issue Date: 16-Aug-2010

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Cleaner W Alkaline Cleaner

### Other means of identification

**SDS #** BDS-026

**UN/ID No** UN1719

### Recommended use of the chemical and restrictions on use

**Recommended Use** Alkaline cleaner.

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

#### **Supplier Address**

Bi-State Detergent Systems, Inc  
3207 Bear Tooth Court  
Bettendorf, IA 52722

### Emergency Telephone Number

**Company Phone Number** 1-563-355-6269 (Phone)

1-563-355-6607 (Fax)

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear liquid

**Physical State** Liquid

**Odor** Characteristic

### Classification

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute toxicity - Oral             | Category 4                |
| Skin corrosion/irritation         | Category 1 Sub-category C |
| Serious eye damage/eye irritation | Category 1                |

### Signal Word

**Danger**

### Hazard Statements

Harmful if swallowed

Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 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: Immediately call a POISON CENTER or doctor/physician  
 Do not induce vomiting  
 Rinse mouth

**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  
 Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name          | CAS No      | Weight-% |
|------------------------|-------------|----------|
| Proprietary Detergent  | Proprietary | 20-30    |
| Proprietary Solvent    | Proprietary | 5.25     |
| Proprietary Detergent  | Proprietary | 5        |
| Proprietary Surfactant | Proprietary | 3-7      |
| Proprietary Surfactant | Proprietary | 0-5      |
| Proprietary Solvent    | Proprietary | .25      |

\*\*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

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Immediately call a poison center or doctor/physician.  |
| <b>Eye Contact</b>    | 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.   |
| <b>Skin Contact</b>   | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap and water. DO NOT attempt to neutralize with chemical agents. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. |
| <b>Inhalation</b>     | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If conscious and alert, wash mouth and nasal passages with water repeatedly. Immediately call a poison center or doctor/physician.                    |
| <b>Ingestion</b>      | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Drink plenty of water or milk immediately. Give diluted vinegar or lemon juice to conscious person. Call a physician or poison control center immediately.  |

### Most important symptoms and effects

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Causes severe skin burns and eye damage. May cause severe eye irritation and pain associated with redness and swelling of the conjunctiva. Prolonged skin contact may cause moderate reddening, swelling and possible necrosis. Corrosive and irritating to upper respiratory tract and mucous membranes; may cause headache, dizziness, nausea, vomiting and malaise. May cause severe burns and tissue perforation to digestive tract and mucous membranes; may cause gastric distress, stomach pains and vomiting. Moderately toxic. May result in red blood cell hemolysis. Overexposure may aggravate pre-existing disorders of the eyes, skin and respiratory system. |
|-----------------|---|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Water. Water spray (fog). Dry chemical. Chemical foam.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Non-flammable.

**Hazardous Combustion Products** Smoke, fumes or vapors, and oxides of carbon. Hydrocarbons.

### 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. Water may be used to cool containers to prevent pressure build up. CAUTION - material is corrosive.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Personal Precautions**            Use personal protective equipment as required. CAUTION - material is corrosive.
- Environmental Precautions**    See Section 12 for additional 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.
- Methods for Clean-Up**            Small spills may be permitted to be flushed to a sanitary sewer. Check with local authorities before proceeding. Large spills-confine spill, soak up with approved absorbent, and shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to 40 CFR 302 for detailed instructions concerning reporting requirements.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

- Advice on Safe Handling**        CAUTION - material is corrosive. Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using 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. Protect container from physical damage. Protect from extreme temperatures. Keep out of the reach of children. Store locked up.
- Incompatible Materials**        Strong oxidizers. Strong acids.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

| Chemical Name          | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |
|------------------------|------------------------------|--|--|
| Proprietary Detergent  | Ceiling: 2 mg/m <sup>3</sup> | (vacated) Ceiling: 2 mg/m <sup>3</sup>   | Ceiling: 2 mg/m <sup>3</sup>                             |
| Proprietary Surfactant | TWA: 20 ppm                  | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup> |

**Appropriate engineering controls**

- Engineering Controls**            Apply technical measures to comply with the occupational exposure limits. Use mechanical ventilation. Local exhaust is required. Eyewash stations. Showers.

**Individual protection measures, such as personal protective equipment**

- Eye/Face Protection**            Chemical anti-splash safety goggles.

|                                       |  |
|---------------------------------------|--|
| <b>Skin and Body Protection</b>       | Neoprene, butyl or nitrile rubber gloves with cuffs. Coveralls, apron or other equipment should be worn to minimize skin contact.  |
| <b>Respiratory Protection</b>         | No respiratory protection is necessary during normal use conditions. In the case of insufficient ventilation or if exposure limits are exceeded, use a suitable NIOSH/MSHA respiratory device. |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.                            |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                       |                         |                |
|------------------------------|-----------------------|-------------------------|----------------|
| <b>Physical State</b>        | Liquid                | <b>Odor</b>             | Characteristic |
| <b>Appearance</b>            | Clear liquid          | <b>Odor Threshold</b>   | Not determined |
| <b>Color</b>                 | Clear                 |                         |                |
| <b>Property</b>              | <b>Values</b>         | <b>Remarks • Method</b> |                |
| pH                           | 13.8                  |                         |                |
| Melting Point/Freezing Point | Not determined        |                         |                |
| Boiling Point/Boiling Range  | 100 °C / 212 °F       |                         |                |
| Flash Point                  | Non-flammable         |                         |                |
| Evaporation Rate             | < 1                   | (Water = 1)             |                |
| Flammability (Solid, Gas)    | Liquid-not applicable |                         |                |
| Upper Flammability Limits    | Not applicable        |                         |                |
| Lower Flammability Limit     | Not applicable        |                         |                |
| Vapor Pressure               | 17 mmHg               | @ 20 C                  |                |
| Vapor Density                | >1                    | (Air=1)                 |                |
| Specific Gravity             | 1.18                  | (1=Water)               |                |
| 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         | None known            |                         |                |
| 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.

|                                 |  |
|---------------------------------|--|
| <b>Hazardous Polymerization</b> | Hazardous polymerization does not occur. |
|---------------------------------|--|

### Conditions to Avoid

Extreme temperatures.

### Incompatible Materials

Strong oxidizers. Strong acids.

### Hazardous Decomposition Products

Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                  |
|---------------------|----------------------------------|
| <b>Eye Contact</b>  | Causes severe eye damage.        |
| <b>Skin Contact</b> | Causes severe skin burns.        |
| <b>Inhalation</b>   | Avoid breathing vapors or mists. |
| <b>Ingestion</b>    | Harmful if swallowed.            |

### Component Information

| Chemical Name          | Oral LD50            | Dermal LD50                                 | Inhalation LC50                               |
|------------------------|----------------------|---|---|
| Proprietary Detergent  | = 214 mg/kg ( Rat )  | -   | -   |
| Proprietary Solvent    | = 7630 mg/kg ( Rat ) | -   | -   |
| Proprietary Detergent  | -                    | > 4640 mg/kg ( Rabbit )                     | -   |
| Proprietary Surfactant | = 470 mg/kg ( Rat )  | = 2270 mg/kg ( Rat ) = 220 mg/kg ( Rabbit ) | = 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h |

### 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** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

| Chemical Name          | ACGIH | IARC    | NTP | OSHA |
|------------------------|-------|---------|-----|------|
| Proprietary Surfactant | A3    | Group 3 |     |      |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 3 IARC components are "not classifiable as human carcinogens"*

### 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   |
|------------------------|----------------------|---|----------------------------|---|
| Proprietary Detergent  |                      | 80: 96 h Gambusia affinis mg/L LC50 static  |                            |   |
| Proprietary Detergent  |                      | 100: 96 h Oncorhynchus mykiss mg/L LC50   |                            | 100: 48 h water flea mg/L EC50  |
| Proprietary Surfactant |                      | 1490: 96 h Lepomis macrochirus mg/L LC50 static<br>2950: 96 h Lepomis macrochirus mg/L LC50 |                            | 1698 - 1940: 24 h Daphnia magna mg/L EC50<br>1000: 48 h Daphnia magna mg/L EC50 |

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

| Chemical Name          | Partition Coefficient |
|------------------------|-----------------------|
| Proprietary Detergent  | 0.83                  |
| Proprietary Surfactant | 0.81                  |

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

|                               |   |
|-------------------------------|---|
| <b>Disposal of Wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated Packaging</b> | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

### California Hazardous Waste Status

| Chemical Name         | California Hazardous Waste Status |
|-----------------------|-----------------------------------|
| Proprietary Detergent | Toxic<br>Corrosive                |

## 14. TRANSPORT INFORMATION

### Note

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

### DOT

|                             |   |
|-----------------------------|---|
| <b>UN/ID No</b>             | UN1719  |
| <b>Proper Shipping Name</b> | Caustic alkali liquid, n.o.s. (Potassium Hydroxide) |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | III   |

**IATA**

UN/ID No UN1719  
 Proper Shipping Name Caustic alkali liquid, n.o.s. (Potassium Hydroxide)  
 Hazard Class 8  
 Packing Group III

**IMDG**

UN/ID No UN1719  
 Proper Shipping Name Caustic alkali liquid, n.o.s. (Potassium Hydroxide)  
 Hazard Class 8  
 Packing Group III  
 Marine Pollutant This material may meet the definition of a marine pollutant

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**International Inventories**

Not determined

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

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name         | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-----------------------|--------------------------|----------------|---|
| Proprietary Detergent | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**SARA 311/312 Hazard Categories**

Not determined

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name            | CAS No | Weight-% | SARA 313 - Threshold Values % |
|--------------------------|--------|----------|-------------------------------|
| Proprietary Surfactant - |        | 3-7      | 1.0                           |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Component                       | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Proprietary Detergent ( 20-30 ) | 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 |
|------------------------|------------|---------------|--------------|
| Proprietary Detergent  | X          | X             | X            |
| Proprietary Surfactant | X          | X             | X            |



**16. OTHER INFORMATION**

|                    |   |                                       |                                      |  |
|--------------------|---|---------------------------------------|--------------------------------------|--|
| <u><b>NFPA</b></u> | <b>Health Hazards</b><br>Not determined | <b>Flammability</b><br>Not determined | <b>Instability</b><br>Not determined | <b>Special Hazards</b><br>Not determined     |
| <u><b>HMIS</b></u> | <b>Health Hazards</b><br>1              | <b>Flammability</b><br>0              | <b>Physical Hazards</b><br>0         | <b>Personal Protection</b><br>Not determined |

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**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 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**