SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
   Product Name: BBJ Micro Coil Clean™
   Product Codes(s): 510-XX, 550-XX, 555-XX04
   Synonym(s): Aqueous cleaning solution
   REACH Registration Number: No data available

1.2 Relevant identified uses of the substance or mixture and uses advised against
   General use: Alkaline coil cleaner
   Uses advised against: No uses advised against

1.3 Details of the supplier and of the safety data sheet
   Distributor
   Atlantic Chemical & Equipment
   3471 Atlanta Industrial Parkway, Suite 200
   Atlanta, GA 30331 USA
   Toll free: +1-800-929-2436

1.4 Emergency telephone number: Chemtrec (24 hours) +1-800-424-9300; International: +1-703-527-3887

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
   Product definition: Mixture
   Classification in accordance with 28 CFR 1910 (OSHA HCS) and Regulation (EC) No 1272/2008
   Skin Irritant (Category 2) [H315]
   Eye Irritant (Category 2A) [H319]

2.2 Label Elements
   Hazard Symbols: GHS07
   Signal Word: Warning
   Hazard Statement(s):
     H315 - Causes skin irritation
     H319 - Causes serious eye irritation
   Precautionary Statements:
     [Prevention]
     P264 - Wash hands or other skin areas contacting this product thoroughly after handling.
     P280 - Wear protective gloves and eye protection.
     P261 - Avoid breathing mist and spray.
     [Response]
     P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
     P321 - Specific treatment: Refer to Section 4.2 of this SDS and seek medical attention.
     P332 + P337 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
     P362 - Take off contaminated clothing and wash before reuse.
     P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
     P337 + P313 - If eye irritation persists: Get medical attention.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
   Not applicable

3.2 Mixtures

<table>
<thead>
<tr>
<th>% by Weight</th>
<th>Ingredient</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Index Number</th>
<th>GHS Classification</th>
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<tr>
<td>&gt;70</td>
<td>Water</td>
<td>7732-18-5</td>
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<tr>
<td>3 - 8</td>
<td>C8-10 Alcohols, Ethoxylated</td>
<td>68439-46-3</td>
<td>215-181-3</td>
<td></td>
<td>H302, H318</td>
</tr>
<tr>
<td>3 - 5</td>
<td>Sodium Metasilicate</td>
<td>6834-92-0</td>
<td>229-912-9</td>
<td>014-010-00-8</td>
<td>H314, H335</td>
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<tr>
<td>&lt;5</td>
<td>Tetrasodium ethylenediamine tetraacetate</td>
<td>64-02-8</td>
<td>200-573-9</td>
<td>607-428-00-2</td>
<td>H302, H318</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures
   Inhalation: If product mist causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.
   Eyes: Immediately flush eyes with large amounts of water for 15 minutes. Remove contact lenses if present, after the first 5 minutes and continue rinsing, occasionally lifting upper and lower lids. Obtain immediate medical attention, preferably from an ophthalmologist.
   Skin: Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek prompt medical attention if irritation persists, if rash develops or if you feel unwell.
   Ingestion: Rinse mouth with water. Remove dentures if present. If conscious and alert drink 2 - 3 cupsfuls of milk or water. Do not induce vomiting unless directed to do so by medical personnel. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on one side with the head lower than the waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute material. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed
   Potential health symptoms and effects
   Eyes: Causes moderate to severe eye irritation. Symptoms include redness, stinging, tearing and swelling.
   Skin: May cause mild to moderate irritation. Repeated and prolonged use may result in drying or cracking of skin or dermatitis.
   Inhalation: Inhalation of mist or spray may cause mild irritation of the respiratory tract.
   Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting, abdominal cramps and diarrhea.
   Chronic: No information available.

4.3 Indication of any immediate medical attention and special treatment needed
   Advice to Doctor and Hospital Personnel: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media
   Suitable methods of extinction: Use extinguishing media suitable for surrounding fire.
   Unsuitable methods of extinction: None known

5.2 Special hazards arising from the substance or mixture
   Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

5.3 Advice for firefighters
   Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
   Wear appropriate protective clothing designated in Section 8. Ventilate the area.

6.2 Environmental precautions
   Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up
   Cover drains and contain spill. Cover with a large quantity of inert absorbent. Collect product using a shovel or broom and into place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Clean contaminated area with soap and water. Dispose of in accordance with federal, state and local regulations.

6.4 Reference to other sections
   For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling
   Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use.
   Advice on protection against fire and explosion
   Keep away from heat, sparks and flame. Solutions containing glycol ethers in water can form flammable vapors with air if heated sufficiently.

7.2 Conditions for safe storage, including any incompatibilities
   Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep out of reach of children.

7.3 Specific end uses
   Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters
   Contains no substances with occupational exposure values.
8.2 Exposure controls

**Engineering Measures:** Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to See Section 7.1.

**Individual protection measures:** Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

**Hygiene measures:** Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

**Eye/face protection:** Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

**Hand Protection:** Wear rubber gloves or gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

**Other protective equipment:** Protective clothing. Wear protective boots if the situation requires.

**Respiratory Protection:** None required with normal use. Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental exposure controls:** Do not empty into drains.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

- **Appearance:** Clear yellow liquid
- **Odor:** Mild
- **Odor Threshold:** Not determined
- **Molecular Weight:** Not applicable
- **Chemical Formula:** Not applicable
- **pH:** >12 @ 20 °C (68 °F)
- **Freezing/Melting Point:** <0 °C (<32 °F)
- **Initial Boiling Point:** 100 °C (212 °F)
- **Evaporation Rate:** Not determined
- **Flammability (solid, gas):** Not applicable
- **Flash Point:** Not determined
- **Autoignition Temperature:** Not determined
- **Decomposition Temperature:** Not determined
- **Lower Explosive Limit (LEL):** Not determined
- **Upper Explosive Limit (UEL):** Not determined
- **Vapor Pressure:** Not determined
- **Vapor Density:** Not determined
- **Specific Gravity:** 1.020
- **Viscosity:** Not determined
- **Solubility in Water:** Dispersible
- **Partition Coefficient: n-octanol/water:** Not determined
- **Volatiles by Volume @ 21 °C:** >80%

#### 9.2 Other data

No data available

### SECTION 10 - STABILITY AND REACTIVITY

#### 10.1 Reactivity

No special reactivity has been reported.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

Extreme temperatures. Contact with incompatible materials.

#### 10.5 Incompatible materials

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, oxides of nitrogen, oxides of sulfur

### SECTION 11 - TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute oral toxicity**

LD₅₀ - Rat: 1,900 mg/kg
SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity
This product is expected to have low acute toxicity to aquatic organisms.

12.2 Persistence and degradability
Product is expected to be readily biodegradable.

12.3 Bioaccumulation potential
Material is not expected to bioaccumulate.

12.4 Mobility
The components in this product are water soluble and highly mobile in soil.

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
Additional ecological information
Do not allow material to run into surface waters, wastewater, sewers or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SEE BILL OF LADING FOR SHIPPING DATA

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations
OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.
EPA Risk Management Planning Standard: Components of this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.
TSCA Status: All components of this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.
Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance
No components of the product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification:
No components of the product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances: Sodium Hydroxide (CAS #1310-73-2), RQ - 453.6 kg (1,000 lbs)

Clean Air Act (CAA)
This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.
This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)
Sodium Hydroxide (CAS #1310-73-2) is listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986
This product contains no chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm.

Other U.S. State Inventories
Sodium Hydroxide (CAS #1310-73-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants List(s): CA, DE, ID, MA, MN, NJ, PA, WA, WI.
Trisodium Nitrilotriacetate (CAS #5064-31-3) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants List(s): MA

Canada
WHMIS Hazard Symbol and Classification
D2B - Eye irritation - toxic - other

Canadian National Pollutant Release Inventory (NPRI): None of the chemicals in this product are listed on the NPRI.

European Economic Community
Labeling (67/548/EEC to 1999/45/EC)
Xi - Irritant

Risk Phrases: R36/38 - Irritating to eyes and skin.
Safety Phrases: S2 - Keep out of the reach of children.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 - Wear suitable gloves and eye/face protection.

WGK, Germany (Water danger/protection): 2

Global Chemical Inventory Lists

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory Name</th>
<th>Inventory Listing</th>
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<tbody>
<tr>
<td>Canada:</td>
<td>Domestic Substance List (DSL).</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada:</td>
<td>Non-Domestic Substance List (NDSL).</td>
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<tr>
<td>Europe:</td>
<td>Inventory of New and Existing Chemicals (EINECS)</td>
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<tr>
<td>United States:</td>
<td>Toxic Substance Control Act (TSCA)</td>
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<tr>
<td>Australia:</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
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<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
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<td>Japan:</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Korea:</td>
<td>Existing Chemicals List (ECL)</td>
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<tr>
<td>Philippines:</td>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.
No - one or more components of this product are not on the inventory and are not exempt from listing.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

Health  Flammability  Physical Hazard  Personal Protection

HMIS Hazard Rating Legend
* = Chronic Health Hazard  2 = MODERATE
0 = INSIGNIFICANT  3 = HIGH
1 = SLIGHT  4 = EXTREME

Safety Glasses  Gloves
National Fire Protection Association (NFPA)

Flammability

Health

Instability

Special

NFPA Hazard Rating Legend

0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

Full text of GHS Hazard Phrases referenced in Section 3 (not covered in Section 2)

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Atlantic Chemical & Equipment assumes no legal responsibility or liability for the described product's use. All chemicals possess unknown potential hazards. The information herein should be used only to supplement the end user's existing knowledge. Read directions for proper use. This SDS was written for the product as packaged. Cleaning Contractors shall comply with all applicable OSHA regulations.

Preparation Date: 26 May 2016