

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**1.1 Product identifier**

**Product Name:** BBJ Micro Coil Clean™ Aerosol

**Product Codes(s):** 505-06

**Synonyms:** Aerosol 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**

**Manufacturer**

BBJ Environmental Solutions

6321 Pelican Creek Circle

Riverview, FL 33578 USA

+1-813-622-8550; Toll free: +1-800-889-2251

**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 1940 (OSHA HCS)**

Gases under pressure - Compressed gas [H280]

Skin Irritant - Category 2 [H315]

Eye Irritant - Category 2B [H320]

Specific Target Organ Toxicity (Single Exposure) - Category 3 (STOT SE3) [H335]

Specific Target Organ Toxicity (Single Exposure) - Category 3 (STOT SE3) [H336]

**2.2 Label Elements**

**Hazard Symbols:**



GHS04



GHS07

**Signal Word:**

Warning

**Hazard Statement(s):**

H280 - Contains gas under pressure; may explode if heated

H315 - Causes skin irritation

H320 - Causes eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

**Precautionary Statements:**

**[Prevention]**

P264 - Wash hands or other skin areas contacting this product thoroughly after handling.

P261 - Avoid breathing vapor, mist and spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves and eye protection.

**[Response]**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

P321 - Specific treatment: Seek medical attention. Refer to Section 4 of this SDS.

P332 + P313 - If skin irritation occurs: Get medical attention.

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.

**[Storage]**

P405 + P403 - Store locked up in a well-ventilated place.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F).

**[Disposal]**

P501 - Dispose of contents and containers in accordance with national and local regulations.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Not applicable

### 3.2 Mixtures

#### Chemical characterization

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
-----	Water	7732-18-5	-----	-----	-----
-----	Dinitrogen Oxide	10024-97-2	233-032-0	-----	H270, H280
-----	C8-10 Alcohols, Ethoxylated	68439-46-3	215-181-3	-----	H318
-----	Sodium Metasilicate	6834-92-0	229-912-9	014-010-00-8	H314
-----	Tetrasodium ethylenediamine tetraacetate	64-02-8	200-573-9	607-428-00-2	H302, H318

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 vapor, mist or spray cause 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 immediately.

**Eyes:** Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses if present and easy to do, after the first 2 minutes and continue rinsing. 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 medical attention if irritation persists, if rash develops or if you feel unwell.

**Ingestion:** Rinse mouth with water if victim is conscious. Remove dentures, if present. Give 1 - 2 cupfuls of milk or water to drink if the victim is conscious, alert and able to swallow. Do not induce vomiting unless directed to do so by medical personnel. Do not leave victim unattended. 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 or convulsing 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 with redness, pain, tearing, swelling and possible blurred vision.

**Skin:** May cause mild to moderate skin irritation. Repeated and prolonged use may result in drying or cracking of the skin or dermatitis.

**Inhalation:** Inhalation of vapor, mist or spray may cause irritation of the respiratory tract with nasal irritation, sore throat and cough. Vapor or fumes can cause central nervous system depression. Adverse symptoms include nausea, vomiting, headache, drowsiness, dizziness, fatigue, vertigo and unconsciousness.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting, abdominal cramps and diarrhea.

**Chronic:** Prolonged and repeated contact with unprotected skin may result in drying or cracking of skin and dermatitis.

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

#### Advice to Doctor and Hospital Personnel

The exposed person may need to be kept under medical observation for 48 hours. 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

Contents under pressure (130 psi). 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 or may be delayed. Obtain medical attention.

**Explosion hazards:** Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C (122 °F). Do not pierce, crush or burn containers, even if empty.

### 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.

## 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. Avoid handling of damaged cans, especially if leaking.

### 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

Puddles may form when using this product. Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect product and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Dispose of waste in accordance with national and local regulations. Clean contaminated area with soap and water.

### 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

Pressurized container. Do not pierce or burn containers, even after use. Do not use if spray button is missing or defective. Do not spray on an open flame or any other incandescent material. Do not smoke while using this product. Do not cut, weld, solder, drill, grind, or expose containers to heat or other sources of ignition. Do not re-use empty containers. Do not get product in eyes, on skin or clothing. Avoid prolonged exposure to vapor, mist, or spray. Use only outdoors or in well-ventilated areas. Wear all appropriate protective equipment specified in Section 8. Observe good, industrial hygiene practices.

#### Advice on protection against fire and explosion

Keep away from heat, hot surfaces and other sources of ignition. Do not pierce, crush or incinerate containers, even if empty.

### 7.2 Conditions for safe storage, including any incompatibilities

Contents under pressure. Store away from direct sunlight in cool, dry, ventilated storage areas. Do not expose to heat or store at temperatures above 50 °C (122 °F) as cans may burst or explode. Do not puncture, incinerate or crush containers. Do not handle or store near an open flame, heat or other sources of ignition. Protect containers from physical damage. Store away from incompatible materials, food and drink. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. 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

#### Occupational Exposure Limits

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
10024-97-2	Dinitrogen oxide	-----	50 ppm, 90 mg/m <sup>3</sup> , 8 h TWA	25 ppm; 46 mg/m <sup>3</sup> , 10 h TWA

### 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.

**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.

**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. 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

<b>Appearance</b>	Clear, pale yellow liquid
<b>Odor</b>	Mild
<b>Odor Threshold</b>	Not determined
<b>Molecular Weight</b>	Not applicable
<b>Chemical Formula</b>	Not applicable
<b>pH</b>	11.48 ±0.05
<b>Freezing/Melting Point</b>	<0 °C (<32 °F)
<b>Initial Boiling Point</b>	100 °C (212 °F)
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flash Point</b>	Not determined
<b>Autoignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Lower Explosive Limit (LEL)</b>	Not determined
<b>Upper Explosive Limit (UEL)</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Specific Gravity</b>	1.0013 - 1.0023
<b>Viscosity</b>	Not determined
<b>Solubility in Water</b>	Complete
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Volatiles by Volume @ 21 °C</b>	Not determined

## 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, strong reducing 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: >5,000 mg/kg (calculated)

#### Acute inhalation toxicity

No data available

#### Acute dermal toxicity

LD50 - Rat: >5,000 mg/kg (calculated)

#### Skin irritation

Causes skin irritation.

#### Eye irritation

Causes eye irritation.

#### Sensitization

No data available

#### Genotoxicity in vitro

No data available

#### Mutagenicity

No data available

#### Specific organ toxicity - single exposure

May be irritating to the respiratory system. May cause drowsiness or dizziness.

#### Specific organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

### 11.2 Further information

The components in this product are not listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

### 12.2 Persistence and degradability

Organic components of this product are 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:** Contents under pressure. Do not puncture, incinerate or crush containers. The generation of waste should be avoided or minimized whenever possible. Empty containers contain 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 should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of containers and spill material, and avoid 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.

### US DOT (Domestic Ground Transportation)

**Proper Shipping Name:** Aerosols, non-flammable (each not exceeding 1 liter capacity)  
**Hazard Class:** 2.2  
**UN/NA:** UN1950  
**Packing Group:** -----  
**NAERG:** Guide #126  
**Packaging Authorization:** Non-Bulk: None; Bulk: None  
**Packaging Exceptions:** 49 CFR 173.306



### IMO/IMDG (Water Transportation)

**Proper Shipping Name:** Aerosols, non-flammable (each not exceeding 1 liter capacity)  
**Hazard Class:** 2.2  
**UN/NA:** UN1950  
**Packing Group:** -----  
**Marine Pollutant:** No  
**EMS Number:** F-D, S-U

### ICAO/IATA (Air Transportation)

**Proper Shipping Name:** Aerosols, non-flammable (each not exceeding 1 liter capacity)  
**Hazard Class:** 2.2  
**UN/NA:** UN1950  
**Packing Group:** -----  
**Quantity Limitations:** 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 150 kg; Passenger Aircraft: 75 kg

### RID/ADR (Rail Transportation)

**Proper Shipping Name:** Aerosols, non-flammable (each not exceeding 1 liter capacity)  
**Hazard Class:** 2.2  
**UN/NA:** UN1950  
**Packing Group:** -----

## 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.

**OSHA Process Safety Management Standard:** Components of this product are not regulated under OSHA PSM Standard 29 CFR 1910.119.

**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 Toxic Substance Control Act (TSCA) Inventory.

#### Superfund Amendments and Reauthorization Act (SARA)

**SARA Section 311/312 Hazard Categories:** Sudden Release of Pressure, 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 of 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 of 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 depleters.

This product does not contain any Class 2 Ozone depleters.

#### 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 Nitrotriacetate (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:** R36/37/ 38 - Irritating to eyes, respiratory system and skin.  
R67- Vapors may cause drowsiness or dizziness.

**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):** 1

### Global Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
Canada:	Domestic Substance List (DSL).	Yes
Canada:	Non-Domestic Substance List (NDSL).	No
Europe:	Inventory of New and Existing Chemicals (EINECS)	Yes
United States:	Toxic Substance Control Act (TSCA)	Yes
Australia:	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand:	New Zealand Inventory of Chemicals (NZIoC)	Yes
China:	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan:	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea:	Existing Chemicals List (ECL)	Yes
Philippines:	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.

\*"No" indicates that one or more components of this product are not on the inventory or are 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	1
Flammability	0
Physical Hazard	0
Personal Protection	B



Splash Goggles



Gloves

### HMIS and NFPA Hazard Rating Legend

\* = Chronic Health Hazard      2 = MODERATE  
0 = INSIGNIFICANT                3 = HIGH  
1 = SLIGHT                            4 = EXTREME

### National Fire Protection Association (NFPA)

#### Flammability



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

H270 - May cause or intensify fire; oxidizer

H280 - Contains gas under pressure; may explode if heated

R302 - Harmful if swallowed.

R314 - Causes severe skin burns and eye damage

R318 - Causes serious damage to eyes.

BBJ Environmental Solutions assumes no legal responsibility or liability from 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.

Revision Date: 18 January 2016

Preparation Date: 22 December 2015