SAFETY DATA SHEET
BBJ Freshduct Odor Eliminator Aerosol

BBJ Environmental Solutions
"The standard of care for indoor air"

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: **BBJ Freshduct Odor Eliminator Aerosol**
Product Code: 472-06
Synonym(s): None known

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Odor control for HVAC systems and air ducts
Uses advised against: None known

1.3 Details of the supplier and of the safety data sheet

Manufacturer
Atlantic Chemical & Equipment
3471 Atlanta Industrial Parkway, Suite 200
Atlanta, GA 30331 USA
Toll free: +1-800-929-2436

Distributor
BBJ Environmental
PO Box 110301
Stamford, CT 06911-0301 USA
Toll free: +1-800-889-2251

1.4 Emergency telephone number: **Chemtrec (24 hours) +1-800-424-9300**

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Mixture
Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008
Aerosol - Category 3 [H229]
Eye Irritation - Category 2B [H320]

2.2 Label elements

Hazard symbol(s): None

Signal word: Warning

Hazard statement(s):
H229 - Pressurized container; may burst if heated
H320 - Causes eye irritation

Precautionary statements:

[Prevention]
P210 - Keep away from hear, sparks, open flames and hot surfaces.
P251 - Do not pierce or burn, even after use
P264 - Wash hands and other skin areas exposed to material thoroughly after handling.

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

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None known

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Proprietary mixture consisting of low toxicity ingredients. The identities of the components in this product are a trade secret (29 CFR 1910.1200(i)) and are available to the attending physician or paramedical personnel in case of emergency.

There are no additional ingredients present in this product 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 or vapor 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. Get immediate medical attention. If unconscious place in the recovery position and get immediate medical attention. Maintain an open airway. 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 or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash the affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures if present. DO NOT induce vomiting unless directed to do so by medical personnel. Give 1 - 2 glasses of milk or water to drink if the victim is conscious, alert and able to swallow. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek medical attention if the victim feels unwell or if a large quantity of material has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes eye irritation. Symptoms may include redness, tearing and discomfort. Vapor or mist may cause eye irritation.

Skin: May cause skin irritation with localized redness, itching and discomfort.

Inhalation: Inhalation of mist or vapor may cause irritation of the respiratory system. 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 upset with nausea, vomiting, abdominal pain and diarrhea.

Chronic: Persons with pre-existing disorders of the skin or impaired respiratory function may be more susceptible to the effects of this material.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel

Treat symptomatically and supportively. The exposed person may need to be kept under medical observation for 48 hours.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Contents under pressure (130 psi). Solutions containing glycol ethers in water can form flammable vapors with air if heated sufficiently. Closed containers may explode due to 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.

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 to 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. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. Avoid handling damaged cans, especially if leaking. No smoking. No smoking. Clean up spills or puddles immediately.

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

See Section 13 for additional waste treatment information.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Use only outdoors or in well-ventilated areas. Wear all appropriate personal protective equipment specified in Section 8.2. Do not inhale vapor or mist. Do not get in eyes or on skin or clothing. No smoking. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes thoroughly after use.

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 cut, weld, solder, drill, grind, or expose containers to heat or other sources of ignition.

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

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Do not store in direct sunlight. Contents under pressure. 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. 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 limit 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 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, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with unperforated side shields during use.

Hand protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Breakthrough time of selected gloves must be greater than the intended use period.

Skin protection: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: No personal respiratory protective equipment normally required. Always use an approved dust mask when dusts exceed permissible exposure limits. Where risk assessment shows air-purifying respirators are appropriate use a half-mask 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). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Fragranced
Odor Threshold	No data available
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH (1% aqueous solution)	5.5 - 6.5 @ 20 °C
Freezing/Melting Point	0 °C (32 °F)
Boiling Point	100 °C (212 °F)
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flash Point	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	No data available
Upper Explosive Limit (UEL)	No data available

Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1.00 ± 0.005
Viscosity	No data available
Solubility in Water	Dispersible
Partition Coefficient (n-octanol/water)	No data available
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatile Organic Components (VOCs)	0%

9.2 Other Data
No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity
No special reactivity has been reported during normal conditions of handling and use.

10.2 Chemical Stability
This material is stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4 Conditions to avoid
Avoid temperature extremes, hot surfaces, sources of ignition, storage in direct sunlight, contact with incompatible materials

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Thermal decomposition products may include carbon oxides, aldehydes, ketones, organic acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity
LD_{50}, rat: >5,000 mg/kg [calculated]

Acute inhalation toxicity
Expected to have low acute inhalation toxicity

Acute dermal toxicity
LD_{50}, rabbit: >5,000 mg/kg [calculated]

Skin irritation
May cause mild 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 cause respiratory irritation.

Specific organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Further information
This product contains no substances present at levels greater than or equal to the 0.1% threshold (de minimis) that are identified as a probable, possible, potential or confirmed 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 material is expected to have low toxicity to aquatic life.

12.2 Persistence and degradability
This material is expected to be biodegradable.

12.3 Bioaccumulation potential
The bioaccumulation potential of this product is low.

12.4 Mobility in soil
The mobility of this material is soil is expected to be high.

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other effects
Additional ecological information
Do not allow material to enter surface waters, wastewater 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
1. **DO NOT PUNCTURE OR INCINERATE CONTAINER.**
2. **DO NOT PUT CONTAINER IN HOME TRASH COMPACTORS.**
3. Before disposal properly de-aerosolize the container in a well-ventilated area. Empty container by dispersing contents into a waste container such as a cardboard box. Relieve container of pressure after contents are exhausted. Always wear safety glasses or goggles, nitrile gloves and clothing that protects against dermal exposure.
4. Dispose of empty container according to applicable federal, state and local regulations. Check with local waste disposal services for guidance.

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

RCRA F-Series: No listings above the reportable threshold (de minimis)
RCRA U-Series: No listings above the reportable threshold (de minimis)

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.

Limited quantity for aerosols when inner packagings are not over 1.0 liter (0.3 gallon) net capacity each and the pressure inside the container is not over 180 psi at 54.4 °C (130 °F), packed in strong outer packaging. Each outer package may not exceed 30 kg (66 lbs) gross weight.

USA DOT (Ground Transportation) - Bulk and Non-bulk

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

Package Label(s)

IMO/IMDG (Water Transportation)

Proper Shipping Name	Aerosols, non-flammable, (each not exceeding 1 L 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 L 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 L 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.

Toxic Substance Control Act (TSCA) Inventory: All substances in this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b)) and 1310.4(f)(2)) and Chemical Code Number: No listings

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number: No listings

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals: No listings

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: None of the components of this product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the components of this product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): No components of the product exceed the threshold (de minimis) reporting levels for hazardous wastes established by CERCLA.

Clean Air Act (CAA)
This product does not contain any Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).
This product does not contain Class 1 ozone depletors.
This product does not contain Class 2 ozone depletors.

Clean Water Act (CWA)
This product does not contain any Hazardous Substances listed under the CWA.
This product does not contain any Priority Pollutants.
This product does not contain any Toxic pollutants.

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 reproductive harm in concentrations that exceed the threshold (de minimis) reporting levels established under Proposition 65.

Other U.S. State Inventories
None of the components of this product are listed on any the State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/ Air Pollutants lists.

Canada

WHMIS Hazard Classification
Pressurized container; may burst if heated May cause mild skin irritation and eye irritation

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

European Economic Community
WGK, Germany (Water danger/protection): nwg (non-hazardous to water)

15.2 Chemical safety assessment

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

SECTION 16 - OTHER INFORMATION

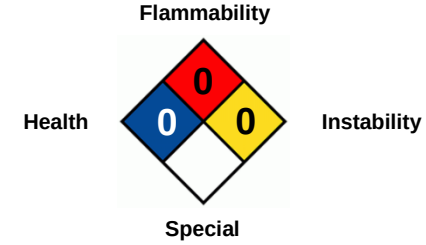
Hazardous Material Information System (HMIS)

B= safety glasses and gloves

HMIS Hazard Rating Legend
0 = Minimal 1 = Slight 2 = Moderate
3 = Serious 4 = Severe
* = Chronic Health Hazard

NFPA Hazard Rating Legend
0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

National Fire Protection Association (NFPA)



Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists	**LD_{Lo}**	Lowest Lethal Dose
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)	**mppcf**	Millions of Particles Per Cubic Foot
CAS	Chemical Abstract Services	**NA**	North America
CFR	Code of Federal Regulations	**NAERG**	North American Emergency Response Guidebook
COC	Cleveland Open Cup	**NIOSH**	National Institute for Occupational Safety & Health
DOT	Department of Transportation	**NTP**	National Toxicology Program
EC_{50}	Half maximal effective concentration	**OSHA**	Occupational Safety and Health Administration
EMS	Emergency Response Procedures for Ships Carrying	**PBT**	Persistent, Bioaccumulating and Toxic
EPA	Environmental Protection Agency	**PEL**	Permissible exposure limit
ErC_{50}	Reduction of Growth Rate	**PMCC**	Pensky-Martens Closed Cup
ERG	Emergency Response Guidebook	**ppm**	Parts Per Million
FDA	Food and Drug Administration	**RCRA**	Resource Conservation and Recovery Act
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)	**RID**	Dangerous Goods by Rail
HCS	Hazard Communication Standard	**RQ**	Reportable Quantity
IARC	International Agency for Research on Cancer	**TCC/Tag**	Tagliabue Closed Cup
IATA	International Air Transport Association	**TLV**	Threshold Limit Value
IC_{50}	Half Maximal Inhibitory Concentration	**TSCA**	Toxic Substance Control Act
ICAO	International Civil Aviation Organization	**TWA**	Time-weighted Average
IDLH	Immediately Dangerous to Life and Health	**UN**	United Nations
IMDG	International Maritime Dangerous Goods	**VOC**	Volatile Organic Compounds
IMO	International Maritime Organization	**vPvB**	Very Persistent and Very Bioaccumulating
LC_{50}	50% Lethal Concentration	**WHMIS**	Workplace Hazardous Materials Information System
LD_{50}	50% Lethal Dose		

DISCLAIMER

BBJ Environmental Solutions assumes no legal responsibility or liability form 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.

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Superseded SDS: 08 June 2016, Version 1

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