

MATERIAL SAFETY DATA SHEET

BBJ Environmental Solutions, Inc.
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I. PRODUCT IDENTIFICATION

PRODUCT NAME	PRODUCT CLASS
Power Coil Clean [®]	Industrial Cleaner

II. INGREDIENTS

INGREDIENT	% BY WT.	CAS REG. NO.
Ammonium Bifluoride	<10.0	1341-49-7
Water	>80.0	7732-16-5
Non hazardous surface active agents	<10.0	Trade Secret

III. PHYSICAL DATA

BOILING POINT: 212 ^o F	SPECIFIC GRAVITY: 1.00 – 1.10 at 25 ^o C
FREEZING POINT: 32 ^o F. May turn milky at <40 ^o F.	VAPOR PRESSURE: (mm Hg) = 17.5
VAPOR DENSITY: Not known	APPEARANCE: Clear
PH@ 25 ^o C: 4.5 – 5.0	SOLUBILITY IN WATER BY WT.: Complete
EVAPORATION RATE: Not known	ODOR: Mild

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not Combustible	FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam. Do not use sand.	SPECIAL FIRE HAZARDS: None

V. REACTIVITY DATA

STABILITY: Stable	Hazardous polymerization will not occur.
INCOMPATIBILITY: Strong acids, bases and glass containers.	
HAZARDOUS DECOMPOSITION PRODUCTS: NH ₃ if in contact with alkalis. Hydrogen Fluoride if heated to decomposition or exposed to acids.	
CONDITIONS TO AVOID: Do not use with any other cleaning agent or household chemicals, including ammonia, acids, alkalis, bleaches, or chlorine cleaners	

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with saw dust or dry lime and sweep. Do not use sand. Do not flush into sewer or bodies of water.
DISPOSAL METHOD: Deposit in containers and dispose in an approved landfill.

VII. HEALTH HAZARD DATA

ACUTE TOXICITY: Oral LD ₅₀ > 1,900 mg/Kg of body weight. Dermal LD ₅₀ >2,000 mg/Kg of body weight. Inhalation LC ₅₀ >2.0 mg/L CARCINOGENICITY: Not a known carcinogen.
EFFECTS OF OVEREXPOSURE: Will irritate eyes. Will dry skin with frequent or prolonged contact
INGESTION: May cause irritation. Do not induce vomiting. Give milk of Magnesia or Milk. Call physician if discomfort persists.
EYE: Flush with water for 15 minutes. Call a physician, if irritation persists.
SKIN: Can cause irritation or burns. Rinse off with plenty of water immediately following contact
INHALATION: May cause irritation of upper respiratory tract.

VIII. PROTECTIVE EQUIPMENT

VENTILATION Use with adequate ventilation.
RESPIRATORY PROTECTION The use of an N95 rated respirator is recommended.
PROTECTIVE CLOTHING Protective gloves (plastic or rubber).
EYE PROTECTION Wear goggles when handling this product.

IX. OTHER SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Keep from freezing and excessive heat. Do not store below 40°F.
SPECIAL COMMENTS When applying the product to the coils in gas furnaces, the burners should be covered to avoid dripping on the burner tubes. If this precaution is not observed, ionization type smoke detectors may go off on the first use of the furnace after application.

PREPARED BY: Dr. Vladimir Mischutin, PhD

DATE: January 31, 2003
AMENDED: June 4, 2003