

BBJ Environmental Solutions 400 North Ashley Drive Suite 2590 Tampa, FL 33602		FOR MSDS INFORMATION Phone: (813) 622-8550 Toll Free: 1-800-889-2251		Page 1 of 2 Effective August 1, 2008	
MATERIAL SAFETY DATA SHEET (MSDS)					
Section 1: Chemical Product and Company Identification					
Product Name:	Microbiocide® For HVAC/R Systems			HMIS Rating (Edition III)	
Product Class:	Microbial Inhibitor			Health	1
EPA Registration No.:	67212-1			Flammability	1
Manufacturer:	BBJ Environmental Solutions			Physical Hazard	0
Emergency Contact:	911 for fire or ambulance				
Section 2: Composition and Information on Hazardous Ingredients					
Chemical Name:	CAS #:	Percent by Weight:	OSHA PEL:		
Container 1 - Active Ingredient: 2-Bromo-2-nitropropane-1, 3-diol	52-51-7	95.00 %	Not listed by OSHA		
Container 2- Diluent: Dipropylene glycol monomethyl ether	34590-94-8	10.00 %	TWA 100 ppm STEL 150 ppm		
Section 3: Hazards Identification for Exposure					
Routes of entry include eyes, ingestion, inhalation, and skin contact.					
Eyes:	Classified as moderately irritating				
Ingestion:	May cause irritation				
Inhalation:	None known				
Skin Contact:	May cause irritation, but is not a sensitizer				
Section 4: First Aid Measures – For all routes of exposure, if a problem persists, seek medical help.					
Eyes:	Hold eye open and rinse slowly with water for 15-20 minutes. Remove contact lenses. Rinse again.				
Ingestion:	Call poison control or doctor. Drink water if able. Do not induce vomiting.				
Inhalation:	Move person to fresh air. Call ambulance if not breathing.				
Skin Contact:	If contaminated, take off article(s) of clothing. Rinse skin with water. Wash contaminated clothing before wearing again.				
Section 5: Fire Fighting Measures					
Special Fire Fighting Instructions:	As in any fire fighting procedure, wear a self-contained NIOSH-approved breathing apparatus and protective clothing.				
Extinguishing Media:	Use appropriate media to extinguish supporting fire.				
Flammability:	> 150°F / 65.5°C				
Flash Point:	Not available				
Section 6: Accidental Release Measures					
Flood with water, flush into sewer; or absorb and dispose in non-hazardous landfill					
Section 7: Handling and Storage					
Handling:	Do not use without reading booklet for directions.				
Storage:	Store in original container with lid closed. Keep out of reach of children. Keep away from heat.				
Section 8: Personal Protective Exposure Control – As any product, minimize exposure when possible.					
Engineering Control:	Use in well ventilated area.				
Eye/Face Protection:	Wear protective eyewear, glasses, goggles, or face shield				
Skin Protection:	Protective (rubber or latex) gloves when using product for extended time				
Respiratory:	None required – follow OSHA guidelines for your application				

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Product Name:		BBJ Microbiocide® For HVAC/R Systems		
Section 9: Physical and Chemical Properties				
Appearance:	Clear and Colorless	pH @ 20°C / 68°F:	2.5 – 4.5	
Boiling Point:	~ 320°F	Solubility in Water:	Complete	
Evaporation Rate:	(Butyl Acetate =1) .13	Specific Gravity:	1.000 – 1.100	
Freezing Point:	-20°F	Vapor Density:	5.14	
Odor:	Mild	Vapor Pressure:	.03 mm Hg	
Section 10: Stability and Reactivity				
Chemical Stability:	Stable			
Incompatibles:	Amines, Alkaline, Oxidizers, Strong Acids.			
Hazardous Products From Decomposition:	Carbon oxides (when mixed with an oxidizer), Formaldehyde (when mixed with an alkaline)			
Hazardous Polymerization:	Will not occur			
Section 11: Toxicological Information				
LD₅₀/LC₅₀/EC₅₀:	LC ₅₀ : >2.09 mg/L (Acute Inhalation - rat); LD ₅₀ : >5000 mg/kg (Acute Dermal Toxicity - rat); LD ₅₀ : >5000 mg/kg (Acute Oral Toxicity – rat)			
Carcinogenicity:	None known			
Section 12: Ecological Information				
Ecotoxicity:	Not available			
Section 13: Disposal Information				
This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Triple rinse container, then offer for recycling or puncture. Dispose of in landfill or incinerate. If burned, stay out of smoke.				
Section 14: Transportation Information				
D.O.T. Shipping Name:	Not regulated			
D.O.T. Hazard Class/ I.D. #/ Packing Group:	Not regulated			
D.O.T. Label:	None			
U.S. Surface Freight Class:	Not regulated			
Air Transportation:	Not regulated			
Section 15: Regulatory Information				
TSCA:	All ingredients are listed in the Toxic Substances Control Act (TSCA) inventory.			
OSHA:	Not regulated			
Clean Air Act:	Not regulated			
State:	Not regulated			
Section 16: Other				
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 MSDS was written for the product as packaged. Product may turn yellow, orange, or brown if pH becomes alkaline; however, this should not affect the product's effectiveness. If frozen, crystals may remain in container after thawing. Shake until dissolved before using. Cleaning Contractors shall comply with all applicable OSHA regulations.				
Approved by:	Robert Baker	On: August 1, 2008		