

Material Safety Data Sheet

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Biocate AG
EPA Reg No: 72977-3-85405
Issue Date: 7/31/2006
Supercedes: NA
Distributed By: Bernard Group Technologies, LLC
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SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

Components	Wt%	Exposure Limits		
		OSHA PEL	ACGIH TLV	NIOSH REL
* -- (see note below)				
Water (CAS No. 7732-18-5)	>90.0	None	None	None
Citric Acid (CAS No. 77-92-9)	4.840	None	None	None
Silver (CAS No. 7440-22-4)	0.003	None	None	None

* -- Asterisked ingredients are those considered hazardous according to the criteria of 29CFR1910.1200. Other ingredients are listed for informational purposes to assist emergency medical response personnel.

SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: Overexposure may cause slight eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

HMIS Rating

Health	0
Flammability	0
Reactivity	0

SECTION 4 -- FIRST AID MEASURES

Eye Contact: IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

Inhalation: IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. Get medical attention.

Ingestion: IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, drink large quantities of water. Avoid Alcohol.

SECTION 5 -- FIRE FIGHTING MEASURES

Flash Point / Method: Not applicable

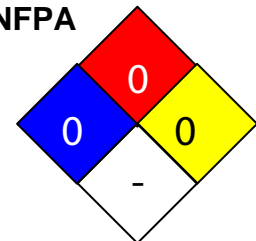
Flammable Limits: Not established

Extinguishing Media: Use water, foam, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing in accordance with OSHA regulations.

Fire and Explosion Hazards: Products of combustion may be irritating.

NFPA



SECTION 6 -- ACCIDENTAL RELEASE MEASURES

Response to Spills: Small spills: Contain spill. Flush to sanitary sewer. Rinse area thoroughly with water. Large spills: Dike or dam spill. Pump to containers or soak up with inert absorbent. Prevent runoff to creeks and waterways.

SECTION 7 -- HANDLING AND STORAGE

Handling Precautions: Wash after handling. Wash hands before eating. Keep container tightly closed when not in use.

Storage Precautions: Store in a cool, dry place. Keep storage temperature below 120°F. Do not contaminate food, feed, or drinking water. Keep from freezing.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

Hygienic Practices:	Normal procedures for good hygiene. Avoid eye and skin contact.
Engineering Controls:	General ventilation recommended for large jobs. Eyewash station is recommended.
Personal Protective Equipment:	Occupational settings (defined by 29CFR1910 - Subpart A) require compliance with 29CFR1910 - Subpart I.
	Respirator NIOSH approved mist type (not normally required)
	Goggles/Face Shield Recommended, as required, to prevent eye contact.
	Gloves Recommended, as required, to prevent skin contact (rubber or Neoprene).

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Boiling Point	Not established
Odor	Practically odorless	Freezing Point	Not established
pH	1.80	Evaporation Rate (Butyl Acetate=1)	Not established
Specific Gravity (H₂O=1)	1.02	Vapor Density (Air=1)	Not established
Solubility	Soluble	Vapor Pressure (mmHg)	Not established
VOC Content (% Wt.)	0.00% (0.000 lbs/gallon)		

SECTION 10 -- STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Heat
Incompatibility:	Carbonates, hydroxides, ammonia, strong oxidizers, metals, amines
Hazardous Decomposition:	Combustion may produce carbon monoxide.
Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	Not applicable

SECTION 11 -- TOXICOLOGICAL INFORMATION

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN		
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910.1000, Subpart Z.		
Acute Oral, Rat	LD50>5000 mg/Kg	Epidemiology	N/A
Acute Dermal, Rat	LD50>5000 mg/Kg	Teratogenicity	N/A
Primary Eye Irritation	rabbit - Category IV	Neurotoxicity	N/A
Primary Eye Irritation	rabbit - Practically non-irritating	Dermal Sensitization	Guinea Pigs - Not a contact sensitizer
US EPA Toxicity Rating	Category IV	Other toxicological properties have been thoroughly investigated.	

SECTION 12 -- ECOLOGICAL INFORMATION

Ecotoxicity:	None
Environmental Fate:	Readily degraded

SECTION 13 -- DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Dispose of in accordance with local, state, and federal regulations.
RCRA Classification:	Non-hazardous if TCLP testing confirms waste does not exhibit the characteristic of toxicity as defined by 40 CFR261.24 for silver content.

SECTION 14 -- TRANSPORT INFORMATION

DOT Classification:	Non-hazardous
Exceptions:	
Description:	Not applicable

SECTION 15 -- REGULATORY INFORMATION

X	TSCA:	Health and Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules: None of the chemicals are under a Chemical Test Rule. Section 12b: None of the chemicals are listed under TSCA 12b. TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.
X	CERCLA:	No RQ is assigned to the generic or broad class - silver compounds. See 50FR13456 (April 4, 1985).
X	SARA 302/304:	None of the chemicals in this product have an RQ or TPQ.
X	SARA 311/312:	MSDS distribution, chemical inventory, hazard identification: None.
X	SARA 313:	None of the chemicals are reportable under Section 313.
X	Clean Air Act:	This material does not contain any hazardous air pollutants, Class 1 Ozone depleters, or Class 2 Ozone depleters.
X	Clean Water Act:	None of the chemicals in this product are listed as Hazardous Substances under the CWA, Priority Pollutants under the CWA, or Toxic Pollutants under the CWA.
X	OSHA	None of the chemicals in this product are considered hazardous by OSHA.
	CA Proposition 65	This product contains no ingredients which appear on the California proposition 65 list.

SECTION 16 -- OTHER INFORMATION

ID:	85405
Issue Date (Rev):	9/24/2008
Revision Summary:	Section 11 & 15 Update

The information provided herein is based on data considered accurate. However, it is furnished WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. It is intended to assist in evaluating the suitability and proper use of the material and in the development of safety precautions and procedures. The user assumes all responsibility for personal injury or property damage caused by the misuse of this product.