

MATERIAL SAFETY DATA SHEET

MSDS DATE: OCT 22 2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Zirconium Silver Phosphate
SYNONYMS: BIOX SIZR 1750

MANUFACTURER: **Geocon Products**
ADDRESS: A 312 Pratik Industrial Estate,
MGLR, Bhandup West, Mumbai 400078 India

EMERGENCY CALLS: 91 22 41225480
OTHER CALLS: 91-9769593030
PRODUCT USE: Anti-Microbial

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<i>CAS Number</i>	<i>Component</i>	<i>%WT (final)</i>
20667-12-3	Silver	1%-3%
13772-29-7	Zirconium Phosphate	95%
1314-13-2	Zinc oxide	1-2%

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
1-2 micron (and greater) particles, dusting may cause irritation if inhaled.

POTENTIAL HEALTH EFFECTS:
EYES (MOLTEN ONLY): Molten wax fumes may be slightly irritating to the eyes. Use of product directly in eyes is not recommended since particles may irritate eye tissue.

SKIN (MOLTEN ONLY):
Molten wax will cause burns on contact with skin. INGESTION: Ingestion of large amounts of material may cause choking.

INHALATION (MOLTEN ONLY): Molten wax fumes may cause mild (upper) respiratory irritations. Product is meant to be used below 95F.

HMIS Ratings: Health: 0 ; Fire: 1; Reactivity: 0
Potential Environmental Effects: Product not soluble in water and therefore has no aquatic effect.

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MSDS DATE: OCT 22 2020

SECTION 4: FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes, remove contact lenses if present, after the first 5 minutes, then continue rinsing eye, call a poison control center or doctor for treatment advice.

SKIN (MOLTEN ONLY): If hot wax strikes skin, drench or immerse the area in cold water to assist cooling. Do not try to remove wax from burn. Seek medical attention. Solid wax can be removed from skin with soap and water.

INGESTION: Consult medical attention. Do not induce vomiting.

INHALATION (MOLTEN ONLY): Move person to fresh air. Seek medical attention, if necessary. NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: none.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS:	Not Applicable
FLASH POINT:	1200°C
BOILING POINT:	1400° C
AUTOIGNITION TEMP.:	Not applicable
EXTINGUISHING MEDIA:	Foam, CO ₂ and Dry Chemical
FIRE FIGHTING PROCEDURE:	Do not use water unless as a fog.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Minimize breathing wax fumes
HAZARDOUS DECOMPOSITION PRODUCTS:	Primarily CO and CO ₂ on combustion

NFPA Ratings: Health: (minimal); Fire: 1 (slight); Reactivity: 0 (minimal)

SECTION 6: ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS: Scrap up solids and dispose according to local and federal regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid skin contact with hot material. OTHER PRECAUTIONS: Store away from heat, flame and direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: Only in the presence of fumes of molten material.

EYE PROTECTION: Recommended in the presence of molten material

SKIN PROTECTION: Proper gloves and skin coverage in the in presence of molten material. WORK HYGIENIC PRACTICES: Normal procedures for good hygiene.

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MSDS DATE: OCT 22 2020

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Powder
ODOR: None
PHYSICAL STATE: white Powder
pH (active ingredient): 7.0 +/- 1.0 (1g powder in 100 ml water)
BOILING POINT: Not applicable
MELTING POINT: Above 1400°C
FREEZING POINT: Not applicable- Stable
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable
SPECIFIC GRAVITY (H₂O = 1): 1.15
EVAPORATION RATE: Not applicable
SOLUBILITY (H₂O): Insoluble

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: stable
CONDITIONS TO AVOID: Direct contact with Open flame IN
COMPATIBILITY: Strong oxidizing agents
HAZARDOUS: No
DECOMPOSITION: Not identified
HAZARDOUS POLYMERIZATION: will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE AND CHRONIC TOXICITY

ACTIVE INGREDIENT (Agion Antimicrobial Type AC):

Acute Oral, Rat: LD50: >5000 mg/kg
Acute Dermal, Rat: LD50: >5000 mg/kg
Acute Inhalation, Rat: LD50: >2.59 mg/liter
Genotoxicity: not considered genotoxic
Reprotoxicity, rat, food: unknown
Primary Eye Irritation, Rabbit: moderate
Dermal Sensitization, Guinea Pig: non a contact sensitizer
Rabbit: 0.08
Chronic Toxicity Rat, food 90 days: unknown
Chronic Toxicity Dog, food 90 days: unknown

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: material contains silver
Environmental: will not biodegrade
Effect on sewage sludge: unknown
Waste Disposal Method: dispose in accordance with local, state and federal regulations.
RCRA Classification: non-hazardous if TCLP testing confirms waste does not exhibit the characteristics of toxicity as defined by 40 CFR 261.24 for silver content.

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MSDS DATE: OCT 22 2020

SECTION 13: DISPOSAL CONSIDERATIONS

US

TCLP extract will exceed threshold for characteristic hazardous waste for silver.

EU

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste with the regional waste disposal company.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Proper Shipping Name:	NOT necessary
DOT Classification:	NOT hazardous
Exceptions:	NOT applicable
Description:	NOT applicable

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

Active Ingredient (Agion Antimicrobial Type AC): None of the chemicals are on the Health and Safety Reporting List. None of the chemicals are under Chemical Test Rule. None of the chemicals are listed under TSCA 12b.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

RQ for copper is 5,000 pounds.
RQ for petroleum jelly is 10,000 pounds.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SARA 302/304: None of this products components are listed under SARA Section 302.SARA 311/312: Not applicable
SARA 313: Silver and copper are reportable under Section 313.

SECTION 16: OTHER INFORMATION

Geocon Products shall not be responsible for the misuse of this product, including but not limited to uses contrary to the recommendations on the label. The content of this MSDS has been prepared using the information provided by the manufacturers of the raw materials and included on the MSDS for those ingredients. It is intended that all information in this MSDS is as accurate as these references allow.