

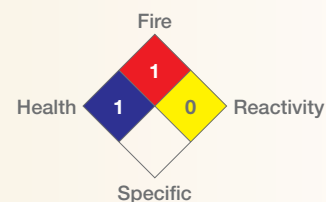


# Material Safety Data Sheet

## 1.0 Chemical Product and Company Identification

Resonant BioSciences, LLC  
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Product name: **Arrestol V™**  
  
**Emergency Phone**  
888.299.3899  
CHEMTREC 800.424.9300  
CHEMTREC International 1.703.527.3887



## 2.0 Composition / Information on Ingredients

Ingredient	CAS #	% by Weight
Inert material		Proprietary
Virginiamycin	11006-76-1	100% activity

## 3.0 Hazards Identification

Powdered material may form explosive dust-air mixtures

Ingestion	May cause irritation to the gastrointestinal tract
Eye	May cause slight irritation
Inhalation	Dust may be slightly irritating to eyes and respiratory tract
Skin	Prolonged or repeated skin contact may cause irritation

## 4.0 First Aid Measures

Eye	Immediately flush with plenty of water. After initial flushing, remove any contact lenses, and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.
Skin	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash (or discard) clothing and shoes before reuse.
Inhalation	Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. If exposed to excessive levels of dusts or fumes, remove to fresh air, and get medical attention if cough or other symptoms develop.
Ingestion	If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## 5.0 Fire Fighting Measures

Flammable properties	Material will burn in a fire. Dusts, at sufficient concentrations, can form explosive mixtures with air.
Extinguishing media	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Remove containers from fire area if it can be done safely. Continue to cool containers until well after fire is extinguished.
Fire fighting instructions	As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Direct water stream may create dust explosion hazard.

## 6.0 Accidental Release Measures

Clean up	Vacuum or sweep up material, and place in a disposal container. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Reduce airborne dust and prevent scattering by moistening with water. Do not flush to sewer.
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## 7.0 Handling and Storage

Handling	Minimize dust generation and accumulation. May form flammable dust air mixtures. Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing. Empty containers retain product residue and vapors. Do not cut, drill, grind, or weld on or near container.
Storage	Store in a cool place in original container and protect from sunlight. Keep away from heat, sparks, and flame. Store away from incompatible materials. Keep container closed when not in use. Keep away from food and drinking water.

## 8.0 Exposure Controls / Personal Protection

Engineering controls	If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Respirators	A NIOSH-approved air-purifying respirator with the appropriate cartridge or canister for the hazards may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Other clothing	Wear safety glasses with side shields (or goggles) and a face shield. Use gloves, and other body coverings, recommended for this material by manufacturers or suppliers based on test data showing adequate permeation and penetration resistance.

## 9.0 Physical and Chemical

Physical state	Solid, powder
Color / Appearance	Light brown / Tan
Odor	Characteristic
Solubility	Slight

## 10.0 Chemical Stability and Reactivity Information

Low hazard for usual industrial or commercial handling	
Thermal stability	Stable under normal conditions of use and storage
Incompatibility	Strong oxidizers
Conditions to avoid	Incompatibles, exposure to heat
Hazardous polymerization	Will not occur
Hazardous decomposition products	<i>Carbon dioxide</i> and <i>carbon monoxide</i> may form when heated to decomposition. Thermal decomposition releases oxides of nitrogen.

## 11.0 Toxicological Information

Carcinogen

NTP No

IARC No

OSHA No

Toxicity (50% *Virginiamycin*)

	<b>Type</b>	<b>Species</b>	<b>Dosage</b>
Oral toxicity	LD <sub>50</sub>	Mouse	> 4,000 mg / kg
Intraperitoneal toxicity	LD <sub>50</sub>	Mouse	> 900 mg / kg
Subcutaneous toxicity	LD <sub>50</sub>	Mouse	> 5,000 mg / kg

## 12.0 Ecological Information

Keep out of waterways

## 13.0 Disposal Considerations

Disposal method Dispose in accordance with applicable federal, state and local environmental and regulatory requirements

## 14.0 Transport Information

DOT shipping name *Arrestol V*

DOT hazard class Not DOT Regulated

Hazardous ingredients Not applicable

Identification number Not applicable

Packing group Not applicable

Label Not applicable

## 15.0 Regulatory Information

Toxic Substances Control Act (TSCA)	All components of this product are either listed on the TSCA Inventory or exempt from TSCA PMN notification requirements.
Superfund reportable quantity (RQ)	Not regulated
Hazardous waste no.	Not regulated
Sara Title III (Section 313)	Please check with the appropriate agency
State lists	Particulates and nuisance dusts may be listed for reporting or disclosure in the states of California, Illinois, Indiana, Kentucky, Minnesota, New Jersey, North Carolina, Oregon, or Rhode Island. Please check with the appropriate state agencies.
For states not listed	Please check with the appropriate agencies

## 16.0 Other Information

All information presented herein is given in good faith and is based on sources and tests considered to be reliable, but cannot be guaranteed. It is the user's full responsibility to accept risk for the safety, toxicity, handling, storage, and use of the product, as well as to determine the suitability of the product for a specific purpose. We make no warranty as to the results to be obtained in using the product; therefore all risks must be assumed by the user.



For more information email [info@puremash.com](mailto:info@puremash.com)

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