

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY**

**Product name** : **Aviguard**  
**Use of substance** : Competitive Exclusion product for Chickens, Turkeys and Gamebirds  
**Company** : **Microbial Developments Limited**  
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**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

Not a hazardous substance or mixture according to regulation (EC) No 1272/2008.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Freeze dried partially characterized micro-organisms derived from healthy Specific Pathogen Free (SPF) chicken intestinal viable bacteria.

Carrier is food grade maltodextrin.

**4. FIRST AID MEASURES**

**Description of first aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap.

**In case of eye contact**

After eye contact, rinse with plenty of water immediately.

**If swallowed**

Rinse mouth out with copious amounts of water. Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media**

Use sprayed water jet, foam, dry powder or carbon dioxide. Fight fire in early stages if it is safe to do so. Wear respiratory protection equipment.

**Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear face mask with dust filter.

**Environmental precautions**

None.

**Methods and materials for containment and cleaning up**

Sweep up into a container and wipe up with a cloth dampened with disinfectant which should also be placed in the container. Seal the container. Wash cleaned area with disinfectant.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage, including any incompatibilities

Store in a refrigerator at +2 to +8°C when not in transit. Keep out of direct sunlight, protect from raised temperature and humidity.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limit values

Contains no substances with occupational exposure limit values.

### Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Skin/hand protection

Wear a laboratory coat or coveralls. A waterproof outer garment is recommended when spraying the diluted product. Handle with protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Respiratory protection

Avoid ingestion and inhalation of powder, diluted liquid and aerosols. Respiratory protection is not required for normal use. Where protection from nuisance levels of dust or aerosols is desired, use type N95 (US) or type P1 (EN 143) dust masks. Persons with known respiratory disorders (e.g. Asthma) should avoid inhalation of the powder.

##### Eye/face protection

Eye protection is not required for normal use. Where protection from nuisance levels of dust or aerosols is desired, use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine, off-white powder
Odour	Distinctive
pH	6.0 - 7.5 (5g/100ml at 20°C)
Boiling point and boiling range	no data available
Flash point	no data available
Flammability (solid, gas)	no data available
Explosive properties	no data available
Oxidising Properties	no data available
Vapour pressure	no data available
Relative density	550g/litre
Water solubility	100% dispersible
Partition coefficient: noctanol/water	no data available
Viscosity	no data available
Vapour density	no data available
Evaporation rate	no data available

**10. STABILITY AND REACTIVITY**

Reactivity / Chemical stability	no data available
Possibility of hazardous reactions / Hazardous decomposition products	no data available
Conditions / materials to avoid	no data available

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity	Normal healthy chicken gut flora (SPF) No toxic effect in the rat at 2000mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity – single/ repeated exposure	no data available
Aspiration hazard	no data available

**12. ECOLOGICAL INFORMATION**

Normal chicken gut flora (SPF). Low environmental impact.

**13. DISPOSAL CONSIDERATIONS / WASTE TREATMENT METHODS**

<b>Powder</b>	Dispose of large quantities of unused product by autoclaving or by incineration.
<b>Liquid</b>	Treat all unused product with an approved disinfectant before disposal to foul drain.
<b>Container Disposal</b>	Wash out with disinfectant and dispose with normal farm waste.

**14. TRANSPORT INFORMATION**

UN-Number	ADR/RID: -	IMDG: -	IATA: -
UN proper shipping name	ADR/RID: IMDG: IATA:	Not dangerous goods Not dangerous goods Not dangerous goods	
Transport hazard classes	ADR/RID: -	IMDG: -	IATA: -
Packaging group	ADR/RID: -	IMDG: -	IATA: -
Environmental hazards	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
Other information	Not dangerous cargo. Keep separate from foodstuffs.		

**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
no data available

**Chemical Safety Assessment**  
no data available

**16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Microbial Developments Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.