



# SAFETY DATA SHEET

Trade Name: BMDT  
Version No.: 08.03(22)  
Reference: SDS.AI887.MY.EN

Issue Date: 09/03/2022

## BIOACTIVE MICROORGANISM DUCT TREATMENT

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	Bioactive Microorganism Duct Treatment
<b>Trade Name:</b>	BMDT
<b>Recommended Use:</b>	Applied on ducting systems to prevent proliferation of bacteria, fungi, and mould. Able to eradicate germs (bacteria, fungi, and mould). Use according to manufacturer's directions
<b>Supplier:</b>	Airestec Innovations Sdn Bhd B-09-10/11, Gateway Corporate Suites, Gateway Kiaramas, 1, Jalan Desa Kiara, Mont' Kiara, 50480 Kuala Lumpur, Malaysia <a href="mailto:info@airestec.com">info@airestec.com</a> / <a href="http://www.airestec.com">www.airestec.com</a>
<b>Emergency information:</b>	(+60)3 – 6203 1923 Monday – Friday: 8.30 am – 5.00 pm

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture (According to GHS Classifications)

Hazardous Chemical. Non-Dangerous Goods.

#### GHS Classifications



- Flammable liquids (Category 3)
- Skin corrosion / irritation (Category 3)
- Eye irritation (Category 2A)
- Respiratory tract irritation (Category 3)
- Narcotic effects (Category 3)

#### Hazard Statements

- Warning – H226 Flammable liquid and vapour
- Warning – H316 Causes mild skin irritation
- Warning – H319 Causes serious eye irritation
- Warning – H335 May cause respiratory irritation
- Warning – H336 May cause drowsiness or dizziness

#### Precautionary Statements

- P103 Read label before use
- P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.

- P233 Keep container tightly closed
- P241 Use explosion-proof equipment
- P242 Use only non-sparkling tools
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray
- P264 Wash hands thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/eye protection

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients Name	CAS No.	Proportion (%)
Water	7732-18-5	75 - 80
Alcohol, Denatured	64-17-5	15 - 20
Hydrogen Peroxide	7722-84-1	5 - 10
CAPB	147170-44-3	1 - 3
Lauramine Oxide	1643-20-5	1 - 3
Decyl Glucoside	68515-73-1 / 110615-47-9	1 - 3
Polymers	-	0.5 - 2

### 4. FIRST AID MEASURES

**Ingestion:** IF SWALLOWED, Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor / physician if you feel unwell.

**Skin:** IF ON SKIN, wash with plenty of water and soap. Take off contaminated clothing and wash before reuse.  
IF SKIN irritation occurs, get medical advice / attention.

**Eyes:** IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF eye irritation persists, get medical advice / attention.

**Inhalation:** IF INHALED, remove victim to fresh air and keep comfortable for breathing. If unconscious, place in recovery position and seek medical attention. Apply artificial respiration if breathing has ceased or shows signs of failing. Call a POISON CENTER or doctor/physician if you feel unwell.

**First Aid Facilities:** Access to potable water. Wash bottles or eye wash.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. Remove patient from further exposure. Treatment of exposure should be directed at the control of symptoms and clinical condition of the patient. Seek medical advice / attention immediately if symptoms worsen.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water spray or fog
<b>Special Hazards Arising from The Substance:</b>	Distant ignition is possible. Carbon monoxide may be evolved.
<b>Advice for Firefighters:</b>	Wear breathing apparatus and full protective gear, in case of fire. Prevent, by any means available, spillage from entering drain or water courses. Remove containers from path of fire, if safe to do so. Keep adjacent containers cool by spraying with water.
<b>Fire / Explosion Hazards:</b>	Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water. Combustion products may include and not limited to: Carbon monoxide, Carbon dioxide. Contact with combustible material may cause fire. Risk of rupture due to increased pressure from decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Equipment**

Use in a well-ventilated area with adequate equipment and emergency procedures. Stop leak if it is safe to do so. Wipe up spilled material and follow precaution of protective equipment. Keep unnecessary personnel from entering the area. Eliminate source of ignition.

### **Environmental Precaution**

Prevent, by any means available, spillage from entering drains or water courses.

### **Methods and Materials for Containment and Cleaning Up**

Minor spills:

- Slippery when spilled.
- Avoid direct contact with skin and eyes. Use protective gloves.
- Clean up spills immediately.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Residue may be washed away with water and detergents.
- Wipe up and place in a suitable and labelled container for disposal.

Major spills:

- Slippery when spilled.
- Clear area of personnel.
- Wear breathing apparatus, eye protection and protective gloves.
- Stop leak if it is safe to do so.
- Contain and absorb spill with sand, earth, inert material or vermiculite.

- Residue may be washed away with water and detergents.
- Wipe up and place in a suitable and labelled container for disposal.
- Alert Fire Brigade if the spill is too large to be handled safely and effectively.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Use in a well-ventilated area with adequate equipment and emergency procedures. Avoid breathing mist or spray. Use local exhaust ventilation if there is risk of inhalation of vapour, mists or aerosol. Use appropriate personal protection. Do not eat, drink or smoke while handling the product. Avoid direct contact with skin and eyes. Wash hands thoroughly after handling. Eliminate source of ignition. Avoid sparks. The vapours may be flammable.  Handle in accordance to good industrial hygiene and safety practice.
<b>Conditions for Safe Storage:</b>	Keep containers tightly closed and store in a dry, cool and well-ventilated area and locked up. Protect containers against physical damage. Keep containers upright at all times. Store away from heat, source of ignition and sparking tools. Containers, even those that have been emptied can contain flammable vapour. Do not cut, drill, grind, weld or perform similar operations on or near containers.
<b>Suitable Container:</b>	HDPE container. Packing as recommended by manufacturer. Ensure all containers are clearly labelled and free from leaks.
<b>Specific End Use(s):</b>	See Section 1 for more information

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

<b>Engineering Controls:</b>	Use in well-ventilated area. If ventilation is poor, the use of local exhaust ventilation system is recommended.
<b>General Safety and Hygiene Measures:</b>	Handle in accordance to good industrial hygiene and safety practice.
<b>Respiratory Protection:</b>	Wear suitable respiratory protection (for use against dust and mist) if potential for inhalation occurs.
<b>Eye and Face Protection:</b>	Safety glasses with side shields / Chemical goggles. Contact lenses may pose a special hazard; soft contact

lenses may absorb and concentrate irritants. Lens should be removed in a clean environment only after workers have washed hands thoroughly. In the event of chemical exposure, remove contact lenses as soon as possible.

**Hands Protection:**

Wear protective gloves / rubber gloves. Specific workplace conditions must be taken into consideration separately. The resistance of glove materials cannot be calculated in advance and has therefore to be checked prior to application. Personal hygiene is the key element of effective hand care. Gloves must be worn on clean hands. After using gloves, hands should be washed thoroughly.

**Skin Protection:**

Not generally required when used as per directions. Avoid prolonged direct skin contact.

**Other Protection:**

- Overalls
- PVC apron
- Barrier cream
- Skin cleansing cream
- Eye wash unit

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Clear transparent liquid
<b>Odour:</b>	Slight alcohol odour
<b>Odour Threshold:</b>	No data available
<b>pH:</b>	5.0 – 6.0
<b>Melting / Freezing Point:</b>	Not determined (liquid at normal temperature range)
<b>Boiling Point:</b>	Not determined
<b>Flash Point:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Flammability:</b>	Flammable liquid
<b>Explosive Limit:</b>	Not applicable
<b>Vapour Pressure:</b>	No data available
<b>Vapour Density:</b>	No data available
<b>Relative Density / Specific Gravity:</b>	Not determined
<b>Partition Coefficient:</b>	No data available

<b>Auto-ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Solubility:</b>	Soluble in water

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions of use and storage. Heating may cause decomposition.
<b>Possibility of Hazardous Reactions:</b>	None under normal conditions of use and storage
<b>Conditions to Avoid:</b>	Avoid heat, sparks, open flames, and other ignition source. Prevent vapour accumulation.
<b>Incompatible Materials:</b>	No data available
<b>Hazardous Decomposition Products:</b>	Thermal decomposition is highly dependent on conditions. Combustion products may include and not limited to: Carbon monoxide, Carbon dioxide, Nitrogen oxide, Sulphur oxides.
<b>Reactivity:</b>	Stable under recommended transport, use and storage conditions

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

<b>Oral:</b>	Not expected to be toxic by ingestion
<b>Dermal:</b>	No data available
<b>Inhalation:</b>	No data available

### IRRITATION

<b>Skin:</b>	May cause irritation.
<b>Eyes:</b>	Causes irritation.
<b>Respiratory:</b>	Excessive inhalation may cause respiratory irritation.

### OTHER EFFECTS

<b>Systemic Toxicity:</b>	No data available.
<b>Sensitization:</b>	Excessive inhalation may cause respiratory irritation. May cause skin irritation in susceptible individuals.
<b>Mutagenic Effects:</b>	No data available.
<b>Carcinogenicity:</b>	Not expected to be carcinogenic.
<b>Reproductive Effects:</b>	This product does not contain any known reproductive hazards.
<b>Developmental Toxicity:</b>	Not expected to produce reproductive or developmental toxicity.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** Contain no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

**Persistence and Degradability:** Expected to be biodegradable.

**Bioaccumulative Potential:** Bioaccumulation is unlikely.

**Mobility in Soil:** Soluble

**Other Adverse Effects:** None known

## 13. DISPOSAL CONSIDERATIONS

- Disposal may be subjected to local laws and regulations and these should be considered first.
- Containers should be emptied as completely as practical before disposal. Residues may cause fire hazard.
- Do not puncture, cut or weld uncleaned drum.

## 14. TRANSPORT INFORMATION

**Marine Pollutant:** NO

### ADR / IATA-DGR / IMDG-Code

Class: 3  
Packing group: II  
Environmentally hazardous: No  
UN Number: 1219  
Shipping name: Contains flammable liquid

## 15. REGULATORY INFORMATION

No chemical / safety assessment has been carried out for this substance or mixture by the supplier.

## 16. OTHER INFORMATION

**Version #:** 03  
**Revision date:** 09/03/2022  
**Initial Date:** 06/10/2021

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazard Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of uses, frequency of use and current available engineering controls must be considered.

**Disclaimer:**

This suggestion and data are based on information obtained from the manufacturer's SDS that we believe to be reliable. They are offered solely for your reference without any guarantee or warranty, as the conditions and methods of use of this product is beyond our control. We recommend the user to determine the suitability of our materials and suggestions before adopting them on a commercial scale.

**-END OF SDS-**