

**MOULD ERADICATION ADDITIVE**  
 Supersedes Date: 25-Apr-2018

Revision Date 02-Jul-2018  
 Revision Number 1.01

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product Identifier**

**Product Name** MOULD ERADICATION ADDITIVE  
**Pure substance/mixture** Mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** Biocidal Products (e.g. disinfectants, pest control).  
**Uses advised against** None known

**1.3. Details of the supplier of the safety data sheet**

**Company Name**

Airtech Environmental  
 Systems Stathe Road,  
 Burrowbridge,  
 Somerset,  
 TA7 0RY  
 Tel: +44 (0) 1823 690 292  
 Fax: +44 (0) 1823 690 291

**E-mail address** info@airtechsolutions.co.uk

**1.4. Emergency telephone number**

<b>Emergency Telephone</b>	
<b>United Kingdom</b>	

**Section 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Skin Corrosion/Irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitisation</b>	Category 1 - (H317)
<b>Specific target organ toxicity (repeated exposure)</b>	Category 2 - (H373)
<b>Acute aquatic toxicity</b>	Category 1 - (H400)
<b>Chronic aquatic toxicity</b>	Category 1 - (H410)

**2.2. Label Elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Contains Zinc pyrithione, 3-Iodo-2-propynyl butylcarbamate, 2-octyl-2H-isothiazol-3-one

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**Signal Word**  
DANGER

## Hazard statements

H332 - Harmful if inhaled  
H410 - Very toxic to aquatic life with long lasting effects  
H373 - May cause damage to organs through prolonged or repeated exposure  
H315 - Causes skin irritation  
H302 - Harmful if swallowed  
H318 - Causes serious eye damage  
H317 - May cause an allergic skin reaction

## Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P314 - Get medical advice/attention if you feel unwell  
P391 - Collect spillage  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

This product requires tactile warnings if supplied to the general public

## 2.3. Other Hazards

### General Hazards

No information available.

### PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Mixture

### 3.2 Mixtures

Chemical Name	EC No.	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Zinc pyriithione	236-671-3	13463-41-7	10 - <20	Eye Dam. 1 (H318) Acute Tox. 3		01-2119511196-46 -XXXX

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				(H301) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		
Zinc oxide	215-222-5	1314-13-2	5 - <10	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		01-2119463881-32 -XXXX
3-Iodo-2-propynyl butylcarbamate	259-627-5	55406-53-6	1 - <5	STOT RE 1 (H372) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		No data available
2-octyl-2H-isothiazol-3-one	247-761-7	26530-20-1	1- <2.5	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Sens. 1 :: C>=0.05%	No data available

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a doctor.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. If symptoms persist, call a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	May cause allergic skin reaction.
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## 4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors** Treat symptomatically.

## **Section 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

None known

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

**Hazardous Combustion Products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

Evacuate personnel to safe areas. Use personal protection recommended in Section 8.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Keep people away from and upwind of spill/leak.

### 6.3. Methods and material for containment and cleaning up

#### **Methods for Containment**

Stop leak if you can do it without risk.

#### **Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

### 6.4. Reference to other sections

#### **Reference to other sections**

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 13: DISPOSAL CONSIDERATIONS

## **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Do not re-use container.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

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## 7.2. Conditions for safe storage, including any incompatibilities

### Storage Conditions

Keep from freezing. Keep containers tightly closed in a cool, well-ventilated place.

## 7.3. Specific end use(s)

### Other Information

Recommendation(s). Observe technical data sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Chemical Name	European Union	Ireland	United Kingdom
Zinc oxide 1314-13-2	-	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

### 8.2. Exposure controls

**Engineering Controls** Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Use explosion-proof ventilating equipment.

### Personal Protective Equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles). Avoid contact with eyes. Gloves must conform to standard EN 374

**Skin and Body Protection** Wear protective gloves and protective clothing. Avoid contact with skin, eyes or clothing.  
**Respiratory Protection** During spraying wear suitable respiratory equipment.

**Environmental Exposure Controls** Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Physical State** Liquid  
**Appearance** Paste  
**Colour** Off-white  
**Odour** Slight  
**Odour Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.0 - 10.0	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash Point	> 100 °C / > 212 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	Not applicable for liquids
Flammability Limit in Air		
Upper flammability or explosive limits	No information available	
Lower flammability or explosive limits	No information available	
Vapour Pressure	No information available	
Vapour Density	No information available	
Relative Density	1.25	
Water Solubility	No information available	

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<b>Solubility in Other Solvents</b>	No information available
<b>Partition Coefficient</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Explosive Properties</b>	Not an explosive
<b>Oxidising Properties</b>	Not applicable
<b>Kinematic Viscosity</b>	No information available
<b>Dynamic Viscosity</b>	No information available

## 9.2. Other information

<b>Softening Point</b>	Not relevant
<b>Molecular Weight</b>	No information available
<b>Solvent content (%)</b>	No information available
<b>Solid content (%)</b>	No information available
<b>Density</b>	1.25 g/cm <sup>3</sup>
<b>Bulk Density</b>	No data available
<b>VOC content (%)</b>	

## **Section 10: STABILITY AND REACTIVITY**

### 10.1. Reactivity

None under normal use conditions.

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

### 10.3. Possibility of hazardous reactions

#### **Hazardous Polymerisation**

None known.

#### **Possibility of Hazardous Reactions**

None under normal processing.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Keep from freezing.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

## **Section 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### **Product Information**

No information or data specific to the product on this toxicological (health) effect is available.

<b>Inhalation</b>	Harmful by inhalation.
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<b>Eye contact</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin Contact</b>	Irritating to skin.
<b>Ingestion</b>	HARMFUL IF SWALLOWED.
<b>Sensitisation</b>	May cause sensitisation by skin contact.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin Corrosion/Irritation</b>	Not applicable.
<b>Serious eye damage/eye irritation</b>	Not applicable.
<b>Sensitisation</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	None known.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	No information available.

## Numerical measures of toxicity

### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	1,033.00 mg/kg
<b>ATEmix (dermal)</b>	7,922.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	4.00 mg/l

## Component Information

**Toxicity Data** Data obtained on the component(s) include

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc pyrithione 13463-41-7	= 177 mg/kg ( Rat )	= 100 mg/kg ( Rabbit )	0.05 - 0.5 mg/L ( Rat ) 4 h = 140 mg/m <sup>3</sup> ( Rat ) 4 h
Zinc oxide 1314-13-2	> 5000 mg/kg ( Rat )	LD50 >2000 mg/Kg (Rat) (OECD 402)	LC50 (4h) >5.7 mg/l
3-Iodo-2-propynyl butylcarbamate 55406-53-6	LD50 =300-500 mg/Kg (Rat)	LD50 >2000 mg/Kg (Rat)	= 0.63 mg/L ( Rat ) 4 h = 0.67 mg/L ( Rat ) 4 h = 0.99 mg/L ( Rat ) 4 h
2-octyl-2H-isothiazol-3-one 26530-20-1	= 550 mg/kg ( Rat )	= 690 mg/kg ( Rabbit )	-

## **Section 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

**Ecotoxicity** Very toxic to aquatic life

## Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea	M-Factor
Zinc pyrithione	-	-	EC50 (48h) =0.038 mg/L	100

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13463-41-7			Crustaceans (Ilyocypris dentifera)	
Zinc oxide 1314-13-2	LC 50 (72Hr) 0.136 mg/L	LC50 (96h) =0.7 mg/L Fish (Danio rerio)	LC 50 (48Hr) =0.5 mg/l (Ceriodaphnia dubia)	1
3-Iodo-2-propynyl butylcarbamate 55406-53-6	EC50 (72 hrs) 0.022 mg/l Scenedesmus subspicatus	LC50 96 h 0.049 - 0.079 mg/L (Oncorhynchus mykiss flow-through)	Acute EC50 (48hrs) 0.16 mg/l - Daphnia magna	10
2-octyl-2H-isothiazol-3-one 26530-20-1	EC50(72h) = 0.084 mg/L (Scenedesmus subspicatus) (OECD 201)	LC50 (96h) = 0.036 mg/L Fish (Oncorhynchus mykiss)	EC50 (48h) =0.25 mg/L	10

## 12.2. Persistence and degradability

Readily biodegradable.

## 12.3. Bioaccumulative potential

No information available.

**Partition coefficient** No information available

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 12.6. Other adverse effects

No information available

## Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues/Unused Products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Improper disposal or reuse of this container may be dangerous and illegal.

## Section 14: TRANSPORT INFORMATION

**Note:** Keep from freezing.

### Land transport (ADR/RID)

**14.1 UN Number** UN3082  
**14.2 Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s (Zinc pyriithione,Zinc oxide)  
**14.3 Transport hazard class(es)** 9  
**Labels** 9  
**14.4 Packing Group** III  
**Description** UN3082, Environmentally hazardous substances, liquid, n.o.s (Zinc pyriithione,Zinc oxide), 9, III  
**14.5 Environmental hazards** Yes  
**14.6 Special Provisions** 274, 335, 601, 375  
**Classification Code** M6  
**Limited Quantity (LQ)** 5 L



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<b>ADR Hazard Id (Kemmler Number)</b>	90
<b>IMDG</b>	
<b>14.1 UN Number</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substances, liquid, n.o.s (Zinc pyriothione, Zinc oxide), Marine Pollutant
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s (Zinc pyriothione, Zinc oxide), 9, III, Marine Pollutant
<b>14.5 Marine Pollutant</b>	P
<b>14.6 Special Provisions</b>	274, 335, 969
<b>Limited Quantity (LQ)</b>	5 L
<b>EmS-No</b>	F-A, S-F
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not relevant

## Air transport (ICAO-TI / IATA-DGR)

<b>14.1 UN Number</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substances, liquid, n.o.s (Zinc pyriothione, Zinc oxide)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s (Zinc pyriothione, Zinc oxide), 9, III
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special Provisions</b>	A97, A158, A197
<b>Limited Quantity (LQ)</b>	30 kg G
<b>ERG Code</b>	9L

## **Section 15: REGULATORY INFORMATION**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### **EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### **EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

##### **EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E1 - Hazardous to the Aquatic

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Environment in Category Acute 1 or  
Chronic 1

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**  
Not applicable

**Persistent Organic Pollutants**  
Not applicable

## 15.2. Chemical safety assessment

None

## **Section 16: OTHER INFORMATION**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H318 - Causes serious eye damage  
H301 - Toxic if swallowed  
H331 - Toxic if inhaled  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H372 - Causes damage to organs through prolonged or repeated exposure

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

#### **Legend** Section 8: Exposure controls and personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals		
STOT (RE):	Specific target organ toxicity - Repeated exposure		
STOT (SE):	Specific target organ toxicity - Single exposure		
EWC:	European Waste Catalogue		

### **Key literature references and sources for data**

Classification and labeling data calculated from data received from raw material suppliers

**Prepared By** Product Safety & Regulatory Affairs

**Revision Date** 02-Jul-2018

### Indication of changes

**Revision Note** Not applicable.

**Training Advice** No information available

**Further information** No information available

**This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006**

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of

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**End of Safety Data Sheet**