

**MATERIAL SAFETY DATA SHEET****Section 1: Product and Company Identification**

**Product Name** : BLUESTOP

**Chemical Name** : Not applicable

**Chemical Formula** : Mixture

**Molecular Weight** : Mixture

**Chemical Family** : Not applicable

**Use** : Fungicide for control of sap stain and mould

**Supplier's Name** : Mander Paint Co., LTD

**Registered Address** : 96/64 moo 5 Ramindra Rd., Tarang Bangkhen Bangkok  
10220

**Tel. No.** : 02- 9451785-6

**Factory Address** : 30/11 Isarambomrung Rd., Sadao Songkhra 90120

**Tel. No.** : 074 – 460173-4

**Section 2: Information On ingredient**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Proportion</u>
Chlorothalonil	1897-45-6	40-45% w/v
Carbendazim	10605-21-7	5 – 10 % w/v
Inert ingredient	-	remainder

**Section 3: Physical And Chemical Properties**

<b>Appearance</b>	:	White/cream aqueous suspension
<b>Odor</b>	:	None
<b>Solubility</b>	:	Aqueous suspension
<b>Boiling point</b>	:	Not applicable
<b>Melting Point (° C)</b>	:	Not applicable
<b>Vapor Pressure</b>	:	Chlorothalonil 5.72 x 10E-7 mm Hg @ 25°C Carbendazim 4.86 x 10E-10 mm Hg @ 20°C
<b>Percent Volatiles</b>	:	Not Applicable
<b>Evaporation Rate</b>	:	Not Applicable
<b>Vapor Density</b>	:	Not Applicable
<b>Specific Gravity</b>	:	1.24
<b>pH</b>	:	7.5 – 7.9 @ 1% aqueous solution

**Section 4: Hazard Identification**

- 1. Proposed classification** : Type II
- 2. Most Important hazard** : R36 Irritating to eyes  
R43 May cause sensitization by skin contact

**Section 5: First Aid Measures**

- Eye contact** : Wash out with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention if irritation persists.
- Skin Contact** : Remove contaminated clothing immediately and wash off with plenty of soap and water. If irritation or any discomfort continues, seek medical attention.
- Inhalation** : If it is safe to do so, remove from exposure and remove any visible product from around face. Give artificial respiration if required. Seek medical attention immediately.
- Swallowed** : Do not induce vomiting. Seek medical attention immediately.
- Advice to doctor** : If ingested, probable mucosal damage may

contraindicate the use of gastric lavage.  
Product is absorbed by ingestion, inhalation,  
via the skin and eyes. Treat  
symptomatically. Antihistamines and  
steroids have been found to be effective in  
dealing with irritation.

### **Section 6: Fire Fighting Measures**

The product is not flammable.

<b>Flash Point</b>	:	Not Combustible
<b>Auto ignition temperature</b>	:	Not Applicable
<b>Flammable Limit (%)</b>	:	Not Applicable
<b>Explosion Properties</b>	:	Not Applicable
<b>Extinguishing Media</b>	:	CO <sub>2</sub> , foam, dry powder, in order to reduce the risk of spreading contamination, whenever possible do not use water extinguishers.
<b>Fire Fighting Instruction</b>	:	Keep drums cool with water. Avoid breathing smoke and fumes. Emergency service personnel must wear breathing apparatus. Prevent, by any means available, spillage from entering drains or water course.

**Section 7: Accidental Release Measures**

**Leak / Spill** : Wear suitable protective equipment. Restrict access to contaminated area. Recover free liquid. Absorb remainder with sand, clay or vermiculite.

**Section 8: Handling And Storage**

**Handling** : Wear suitable protective clothing, eye / face protection and gloves.

**Storage** : Keep container tightly closed. Store in cool, dry area with sufficient natural / mechanical ventilation to avoid airborne hazards. Store away from sources of heat or ignition and oxidizing agents. Avoid contact with strong acid and bases.

**Keep out of reach of children**

**Section 9: Exposure Control And Personal Protection**

- a) Exposure Limit** : There are no WES or TLV values available for this mixture or any of the constituents. However, given that the main constituents are pesticides with potential acute and chronic effects, workplace exposure should be kept as low as reasonably achievable by the use of engineering controls and correct personal protective equipment.
- b) Personal Protection** : Observe good work practices. Clothing should consist of overalls with long sleeves. Wear impervious protective gloves ( eg. nitrile rubber, neoprene, PVA, PVC or NBR), impervious apron, and a face shield when handling the product. Care must be taken to prevent the insides of clothing from becoming contaminated. Wash thoroughly after use, and before eating, drinking or eating.
- c) Health effects**
- Swallowed** : May cause nausea, vomiting, stomach pains and diarrhea. Can be corrosive to the digestive system.
- Eye** : Strong irritant
- Skin** : May irritate skin. Long term skin contact may cause dermatitis.
- Inhaled** : May cause irritation of nasal and respiratory tract.

**Section 10: Stability And Reactivity**

<b>Conditions to avoid</b>	:	Store away from sources of heat or ignition.
<b>Incompatibles</b>	:	Oxidizing agents, strong acids and bases.
<b>Decomposition products</b>	:	Thermal decomposition could include hydrogen cyanide and phosgene gas.
<b>Hazardous Polymerization</b>	:	Not known

**Section 11: Toxicological Information**

<b>Acute oral LD50 (95% confidence limit)</b>	:	male rats 3961 mg/kg female rats 4475 mg/kg
<b>Acute dermal LD50</b>	:	male rats > 2000 mg/kg Female rats >2000 mg/kg
<b>Acute dermal irritation</b>	:	rabbit : non irritant Irritant index 0.0
<b>Acute eye irritation</b>	:	rabbit: moderate irritant, score 25.0, Class 5, reversible

**Section 12: Ecological Information**

<b>Toxicity</b>	:	Harmful to fish.
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**Section 13: Disposal Consideration**

Dispose in accordance with all applicable national environmental laws and regulations.

Dispose of empty containers safely. Clean drums by washing 3 times with clean water. Washings should be recycled into the treatment system.

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Consult Mander Paint Co., Ltd. for further information