



Revised May 2011  
 Revised 16.2.09  
 Revised March 2007

- **MATERIAL SAFETY DATA SHEET**

**TIGER - A**

**COMPANY DETAILS:**

Company: Wobelea Pty Ltd  
 Address: 18 Embrey Court, PAKENHAM VIC. 3810  
 Phone: (03) 5940 1077  
 Emergency: (03) 5629 5424

**IDENTIFICATION:**

A: Chemical Data:-

Other names – Halobrom, Halogene  
 N, N-Bromochloro-dimethyl hydantoin  
 1, 3-bromo, chloro-5, 6-dimethyl hydantoin  
 1, 3-bromo, chloro-5, 5-dimethyl, 4-imidazolidinedione

U.N No. 1479 Hazchem: 1 W E  
 Dangerous Goods Class 5.1 (oxidizer) Packing Group: II  
 Poisons schedule- NRA Approved No: 462420/0598

**Product Use: - A microbiocidal bactericide fungicide, algaecide and slimicide, in treating industrial cooling water systems and pulp and paper mills. Controls bacteria, algae in swimming pool waters.**

B: Physical Data:-

Appearance: White solid tablet with faint halogenous odour,  
 GRANULAR OR TABLET

Melting Point: 163-164° C

Vapour Pressure: Not applicable at standard conditions

Flammability Limit: Will not support combustion

Flash point: N/A

Solubility in water: 0.22 /100 ML @ 25° C

Specific Gravity: 1.8 – 2.0

**18 Embrey Court, Pakenham, Vic. 3810  
 Tel: (03) 5940 1077 Fax: (03) 5940 2599**

**C: Other Properties**

Stability – Stable when dry and uncontaminated.

Avoid-

1. Mixing with anything but water.
2. Heating above 160° C (decomposition produces hydrogen bromide and bromine fumes).

Incompatible with – Paints, petroleum, other combustible organic materials and organic and inorganic oxidizers.

Hazardous polymerization will not occur.

**D: Ingredients:** - (typical analysis – not a specification).

Formula C<sub>5</sub>H<sub>6</sub>BrCIN<sub>2</sub>O<sub>2</sub>

Molecular weight – 241.5

Chemical Entity – Halogenated hydantoin

CAS No. – 126-06-7

**HEALTH HAZARD INFORMATION:****A: Health effects:-**

Eye contact – Severe irritation. Conceal burns on prolonged contact with dust or concentrated suspension.

Skin Contact – Prolonged skin contact may cause reddening and superficial necrosis. Burns may be severe if skin is wet or damp. No absorption via contact skin.

Inhalation – Irritates mucous membranes. Dust will burn respiratory tissues severely.

Ingestion – As for inhalation, will burn digestive tract tissues severely.

**B: Emergency and First Aid Procedures:-**

Eye Contact – Holding the eyelids apart and rolling the eyes, flush eyes with copious quantities of flowing water for 15 minutes. Get medical attention.

Skin Contact – Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water. Wash clothing before re-use. Seek medical attention if irritation persists.

Inhalation – If exposed to dust and/or fumes released at higher temperatures, remove the patient to fresh air, keep the person quiet and warm, apply artificial respiration if necessary and seek medical attention.

Ingestion – If swallowed, give large amounts of water to dilute the toxicant. If immediately available, demulcents such as milk, vegetable oil or egg whites can be given. Do not induce vomiting as it is likely to cause considerable mucosal damage. Seek medical attention.



**First Aid Facilities – An eye wash fountain and washing facilities must be provided.**

### **PRECAUTIONS FOR USE:**

#### A: Exposure Standards:-

Threshold Limits Value: Not established  
Routes of entry: Ingestion, Inhalation. Not through skin.  
Toxicity LD50 (Oral, RAT) = 929 mg /kg  
LC50 (inhalation, rat) = 1.11mg/1/4h.  
Primary skin irritation index 6.1 (corrosive to skin and eyes)  
Contact with dilute solution ( $\leq 0.1\%$ ) is non-irritating to eyes and skin.  
Acute hazard due to corrosive nature to skin and eyes. Chronic hazards not known.  
No carcinogenicity recorded.  
Contact with the material can cause irreversible eye damage and skin irritation.  
Inhalation of dust can cause nasal and throat irritation.  
Existing dermatitis may be aggravated by exposure.

#### B: Engineering Controls:

Ventilation: Local exhaust used to minimize dusting. No special exhaust required.  
Mechanical equipment used for general area control –  
No other required

#### C: Personal Protection:-

A dust mask is essential where dusting may occur.  
Eyes – Impact resistant, chemical safety goggles must be worn.  
Impervious rubber or plastic gloves and boots must be worn.  
Always wash thoroughly after handling.

#### D: Flammability:-

Not flammable under conditions of use.



## **SAFE HANDLING INFORMATION:**

### A: Storage and Transport:-

Dangerous Goods Class 5.1 Oxidizer – Must be stored and transported in accordance with State or Territory dangerous goods regulations.

Precautions to be taken in handling and storage – Handle containers with care and keep them well closed. Store in a cool, dark and dry locations (20-32° C), away from energy sources and incompatible materials.

Use dry, clean clothing and equipment for transfer; always re-cover and close original container well. Avoid crushing of the solid and/or dust dispersal.

Avoid contamination with water, organic, material or oxidizers.

Do not eat, drink or smoke during work; wash thoroughly with soap and water after handling.

### B: Spills and Disposals:-

If material is released or spilled, use protective goggles with side-shields, dust respirator and rubber gloves. Prevent dusting – either shovel or sweep into clean intact packaging for possible re-use or hose down area. Hose down concentrated suspension spills.

Waste disposal method – follow State and/or Local ordinances. Dispose in approved landfill sites or an approved incinerator. Crush and bury empty containers.

### C: Fire/Explosion Hazard:-

Extinguishing media is water. Do not use ammonium phosphate extinguisher near water and halobrom.

Special fire fighting procedures – cool containers with water spray. In closed stores, provide fire fighters with self contained breathing apparatus (in pressure demand or other positive pressure mode).

Unusual fire and explosion hazards – reaction with combustible organic materials bases, moisture or with oxidizers, may generate heat, hazardous gases and possibly fire or explosion. From approximately 160° C, product will decompose, releasing irritant, toxic hydrogen bromide and bromine fumes. Will smolder in large fires, fuelled by other materials with emission of dense black smoke for a long time.

## **CONTACT:**

Title: Operations Manager

Phone: (03) 5940 1077 or AH (03) 5629 5424

**18 Embrey Court, Pakenham, Vic. 3810**  
**Tel: (03) 5940 1077 Fax: (03) 5940 2599**