



Revised April, 2010

MATERIAL SAFETY DATA SHEET

NYLATE

COMPANY DETAILS:

Company : Wobelea Pty Ltd
Address : 18 Embrey Court, Pakenham Vic 3810
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IDENTIFICATION:

A: Chemical Data:-

Other names – Halobrom
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. 3085 Hazchem: 1 W E
Dangerous Goods Class 5.1 (oxidizer) Packing Group: II
Poisons schedule- Six (UDPS Australia) NRA Approved No: 47352/1099

Use:- Disinfectant for cooling towers, irrigation lines, cut flower holding water. For control of plant and human pathogens in wash water for fruit and vegetables in recirculated or single pass systems.

B: Physical Data:-

Appearance : White solid or free flowing granules with faint halogenous odour.
Melting Point: 163-164° C
Flashpoint: None
Vapour Pressure: Not applicable at standard conditions
Flammability Limit : Will not support combustion
Solubility in water 2grams / 1 litre @ 20° C
Specific Gravity: 1.8 – 2

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 – All chlorine and chlorine dioxide compounds, acids, alkalis, paints, petroleum, other combustible organic materials, organic and inorganic combustibles compounds as: spreaders, surfactants, fungicides, insecticides, fertilisers and other pesticides.

Hazardous polymerization will not occur.



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

Formula C₅H₆BrCIN₂O₂

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 intact 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.



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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:

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