

UNIVERSAL NOTICE 250 EC

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: NOTICE 250 EC
 Fungicide

UN No.: 1993

Supplier: Universal Crop Protection (Pty) Ltd.
 Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, South Africa

Telephone: (011) 396 2233

Fax: (011) 396 4777

Website: www.villacrop.co.za

Emergency telephone: +27 11 396 2233
 (08:00 – 16:30)

24 Hr Emergency Numbers:

Bateleur: +27 83 1233 911 or
 (Client: Villa Crop Protection) +27 860 333 911

In case of Poisoning:

Western Cape Poisons Tel. Service +27 861 555 777
 Griffon Poison Information Centre +27 82 446 8946
 Tygerberg Hospital +27 21 931 6129

2. COMPOSITION/INFORMATION ON INGREDIENTS

Common name: BUPIRIMATE

Chemical Name: -butyl-2-ethylamino-6-methylpyrimidin-4-yl dimethylsulfamate (IUPAC)

CAS No.: [41483-43-6]

Chemical Family: Pyrimidinol

Chemical Formula: C₁₃H₂₄N₄O₃S

Molecular weight: [Mol. Wt. 316.4]

Use: Systemic fungicide with protective and curative action.
 Absorbed by the leaves, with translocation in the xylem and translaminar action. Acts by inhibiting sporulation of fungi.

Formulation: BUPIRIMATE: 250 g/l
 Emulsifiable concentrate

Hazardous ingredients of toxicological concern:

Inert:	% present:
Bupirimate,	25.0 %
Inerts	61.0 %

Symbol: F, Xi, Xn, N

Indication of danger: Flammable, Irritant, Harmful, Environmentally hazardous

Risk-Phrases: R10, R20/22, R36/37/38, R43, R51/53, R65, R66, R67

3. HAZARD IDENTIFICATION

Likely routes of exposure: In case of inhalation, skin and eye contact and ingestion, **Bupirimate** may cause mild irritation, tearing, nausea, vomiting, diarrhoea, headache, difficulty breathing and death. Inert is irritating to eyes and skin. Its repeatedly exposure to the skin may cause skin dryness and cracking.

Skin: May cause drying, may irritate skin. Serious toxic effects not anticipated by this route.

Eye: May cause severe irritation, tearing, conjunctivitis, but unlikely to damage eyes permanently.

Inhalation: May cause irritation of the respiratory tract, headache, dizziness, drowsiness, intoxication, anaesthesia.

Swallowed: Product may be harmful. It may cause headache, dizziness, drowsiness and intoxication. If vomiting occurs, aspiration into the lungs may occur and chemical pneumonitis may develop. Small amounts of product aspirated into the respiratory system during ingestion or vomiting, due to inert in product, may cause mild to severe pulmonary injury.

Other Health Hazard Information: Persons with pre-existing dermatitis, respiratory disorders or an allergy history should take extra care in handling this product.
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation: Remove the source of contamination or move person to fresh air. Keep person at rest until recovered if cough or other respiratory symptoms develop, consult medical personnel. If breathing stops, administer artificial respiration and immediately seek medical attention.

Skin contact: Remove contaminated clothing, shoes and leather goods and do not re-use until thoroughly cleaned or laundered. Wash skin with non-abrasive soap and plenty of water. Obtain medical attention if irritation persists.

Eye contact: Immediately flush eyes with a stream of clean water for at least 20 minutes, holding the eyelid(s) open. Obtain medical attention.

Ingestion: Do not induce vomiting due to inert. If vomiting occurs keep head lower than hips to prevent aspiration. If the person is alert, rinse mouth thoroughly with water. Give a slurry of activated charcoal in water to drink. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Advice on treatment: Treat symptomatically and give supportive therapy; If ingested perform gastric lavage and administer activated charcoal.

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5. FIRE FIGHTING MEASURES

Flash point: 40 °C.

Flammability: Flammable.

Hazardous products of combustion: Fire may produce irritating or poisonous vapours (carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments), mists or other products of combustion.

Extinguishing agents: Extinguish fires with carbon dioxide, foam, dry chemical and water fog. Water spray can be used for cooling of unaffected stock. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Firefighting: Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Use as little water as possible.

Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Personal protective equipment: Fire may produce irritating or poisonous vapours (carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments), mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus in the positive-pressure mode with a full face mask when there is a possibility of exposure. Decontaminate emergency personnel with soap and water before leaving the fire area.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions: Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

Environmental precautions: Do not allow entering into drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs. Considered as Marine Pollutant.

Occupational spill: Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Recover free liquid with explosion proof pumps, absorb residue with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. If fire potential exists, blanket spill with foam as a precaution. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Harmful if inhaled or swallowed. Irritating to eyes and skin. Avoid contact with eyes and skin, and inhalation of spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the pesticide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination. When transferring more than 5 litres, ground the container before handling to prevent static discharge, which may cause ignition. Do not cut, drill, weld or grind on or near this container.

Storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original labelled container in isolated, dry, cool and well-ventilated area. **Bupirimate** becomes unstable on prolonged storage above 37°C and is rapidly decomposed by u.v. irradiation in aqueous solution. Not to be stored close to foodstuffs, animal feeds and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal

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protective equipment including approved respiratory protection.

Respirator: An approved respirator suitable for protection from mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection: The use of safety goggles is recommended.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber liquid suspension.

Odour: Aromatic hydrocarbon odour.

Flammability: Flammable.

Flash point: 40°C (Closed cup).

Explosion properties: Not explosive.

Solubility: Soluble in water.

Density: 0.92 g/cm³.

pH: 7.2 (1% dispersion).

Boiling point: 128°C.

10. STABILITY AND REACTIVITY

Stability: Chemically and thermally stable. This product is unlikely to decompose under normal normal storage conditions.

Storage stability: Stable for a period of 2 years under normal warehouse conditions.

Conditions and Materials to Avoid: Keep the product in a cool, dry place, at below 30 °C. Protect from sunlight, open flame and sources of heat. Keep container and surrounding ventilated. Keep away from sources of sparks or ignition. Store in the closed original container, in dry, cool, well-ventilated area out of direct sunlight.

Hazardous decomposition products: Fire may produce harmful combustion product such as carbon dioxide, and if combustion is complete, carbon monoxide and smoke. Nitrogen, its compounds and under some circumstances, oxides of nitrogen. Occasionally hydrocarbon cyanide gas. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and sulphur compounds. Most will have a foul odour. Water, carbon monoxide poisoning produces headaches, weakness, nausea, dizziness, confusion,

dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: this product will not undergo polymerisation.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ rats:

Formulation calculated: >2000 mg/kg.

Acute dermal LD₅₀ rats:

Formulation calculated: >4800 mg/kg.

Acute skin irritation: Moderate irritant.

Acute eye irritation: Moderate irritation.

Dermal sensitisation: Non-skin sensitizer. Due to inert, prolonged exposure may cause skin cracking and dermatitis.

Inhalation: Slight toxicity. Inhalation of excessive amounts may cause respiratory irritation and damage the lungs (due to inert).

Mutagenicity: Not available.

Reproductivity: Not available.

Teratogenicity: Not teratogenic in animal experiment

Carcinogenicity: Not available.

12. ECOLOGICAL INFORMATION

Mobility, Degradability & Accumulation:

Soil: In soil the major degradation product is ethirimol. Soil DT50 35 – 90 d (non- sterile flooded or non flooded soil, pH 5.1 – 7.3).

Animals: In mammals, following oral administration, 68% of the dose is eliminated in the urine with 24 hours; 77% is the 21% in the faeces within 10 days.

ECOTOXICOLOGY:

Birds:

Bupirimate Technical:

Oral LD ₅₀ :	Quail,	> 5200 mg/kg
	Pigeons	> 2700 mg/kg

Fish:

Bupirimate Technical: Toxic to fish

LC ₅₀ (96 h):	Rainbow trout:	1.4 mg/l
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Daphnia:

Bupirimate Technical:

LC ₅₀ (48 h):		7.3 mg/l
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Bees:

Bupirimate Technical:

NOEL	(oral)	0.20 mg/bee
	(contact)	0.050 mg/bee

13. DISPOSAL CONSIDERATION

Pesticide disposal: It is the responsibility of waste generator to determine the toxicity of and physical properties of material generated to determine the proper

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methods in compliance with applicable regulations. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Comply with local legislation applying to waste disposal.

Container disposal:

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

UN NUMBER: 1993
Road Transport ADR/RID:
 Class: 3.3
 Packaging group: III
 Shipping name: **Flammable** liquid. N.O.S.
 (Bupirimate 25%)

Maritime Transport IMDG/IMO:
 Class: 3.3
 Packaging group: III
 Shipping name: **Flammable** liquid. N.O.S.
 (Bupirimate 25%)

Considered a marine pollutant.

Toxic to aquatic organisms.

15. REGULATORY INFORMATION

Symbol: F, Xi, Xn, N
Indication of danger: **Flammable**, Irritant,
 Harmful And
 Environmentally
 Dangerous.

Risk phrase(s):

R 10 **Flammable.**
R 20/22 Harmful by inhalation and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65 Harmful: may cause drowsiness and dizziness

R66 Repeated exposure may cause skin dryness or cracking

R 67 Vapour may cause drowsiness and dizziness

Safety phrases:

S 1/2 Keep locked up and out of reach children.

S 13 Keep away from food, drink and animal feeding stuffs.

S 23 Do not breathe vapour/spray.

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

S 62 If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Packaging: Packed in 1, 5, 10, 20 and 25 litres fluorinated plastic containers and labelled according to South African regulations and guidelines.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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Compiled: May 2011

Reviewed: January 2017