

NOBEL 250 EC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: NOBEL 250 EC
Other identifier: Bupirimate 250 EC
Recommended use: Fungicide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.
 Co. Reg No.: 1992/002474/07
 PO Box 10413
 Aston Manor, 1630, South Africa

Telephone: (011) 3962233
Fax: (011) 3964666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 Envirosure. +27 31 205 4918
 (Hazcall24) +27 86 044 4411
 (Client: Villa Crop Protection)
 Griffon Poison Information Centre +27 82 446 8946
 (Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:
 Griffon Poison Information Centre +27 82 446 8946
 Poisons Information Centre +27 861 555 777

Villa Crop Protection Emergency number:
National Safety, Health and Environmental Manager:
 +27 63 698 0668

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Physical		
Flammability	Flam. Liq. 3	H226
Health		
Oral	Acute Tox. 5	H303
Dermal	Acute Tox. 5	H313
	Skin Irrit. 2	H315
	Skin Sens. 1B	H317
Eye	Eye Dam. 1	H318
Inhalation	Acute Tox. 3	H331
	STOT SE 3	H335
	STOT SE 3	H336
Carcinogenicity	Carc. 2	H351
Aspiration	Asp. Tox. 1	H304
Environment		
Aquatic chronic	Aquatic Chronic 2	H411

The most important adverse effects:
Physiochemical effects: None known.
Human health effects:

Causes serious eye damage. Toxic if inhaled. May be fatal if swallowed and enters airways.

Label elements:



Signal word: Danger

Hazard statements:

H226: Flammable liquid and vapour.
 H303: May be harmful if swallowed.
 H304: May be fatal if swallowed and enters airways.
 H313: May be harmful in contact with skin.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H331: Toxic if inhaled.
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P235: Keep cool.
 P261: Avoid breathing mists, vapours or spray.
 P264: Wash skin and eyes thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear impervious rubber gloves and chemical safety goggles.
 P301/310: IF SWALLOWED: Immediately call a POISON CENTER.
 P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P303/361/353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304/340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308/313: If exposed or concerned: Get medical attention.
 P310: IF IN EYES: Immediately call a POISON CENTRE.
 P312 – Call a poison centre if you feel unwell.
 P331: Do NOT induce vomiting.

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P332/313: If skin irritation occurs: get medical advice.
 P333/313: If skin irritation or rash occurs: Get medical advice.
 P362/364: Take off contaminated clothing and wash it before reuse.
 P391: Collect spillage.
 P403: Store in a well-ventilated place.
 P405: Store locked up.
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.
Special labelling of certain mixtures: None known.
Other hazards: None known.
Toxicity:
 Classification according to GHS: Category 3
 Classification according to WHO: Category II
 Classification according to GPIC: Category U

medical attention if irritation persists or sensitization develops.

Eyes: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects: Can cause serious eye damage. May cause skin or respiratory irritation.

Anticipated delayed effects: May cause an allergic skin reaction.

Most important symptoms/effects: May cause drowsiness or dizziness.

Advice to physician: Treat symptomatically and supportively. No specific antidote known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Bupirimate	41483-43-6	25%	Skin Sens. 1B (H317) Carc. 2 (H351) Aquatic Chronic 1 (H410)
Kerosene	8008-20-6	< 15%	Asp. Tox. 1 (H304)
n-Butanol	71-36-3	< 35%	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336)
Solvent naphtha	64742-94-5	<25%	Asp. Tox. 1 (H304)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

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

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and immediately consult a doctor.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. If breathing stops, administer artificial respiration and immediately seek medical attention. Consult a doctor if symptoms of irritation develop or a cough persists.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or vapours. Ventilate area of spill or leak, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

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Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be toxic to aquatic organisms with long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand or earth.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Toxic if inhaled. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. **Bupirimate** becomes unstable on prolonged storage above 37°C and is rapidly decomposed by u.v. irradiation in aqueous solution. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Fluorinated plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
n-Butanol	50 ppm (Short-term)	150 mg/m ³ (Short-term)	OEL

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator with cartridges/canisters approved for organic vapours.

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact.

Eye Protection: The use of chemical safety goggles or a face shield must be used to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate protective impervious clothing; Rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Emergency eyewash: 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: Orange liquid, Emulsifiable concentrate.

Odour: Aromatic odour.

pH (1% aqueous dilution): 6.0 – 8.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: 40 °C.

Flammability: Flammable liquid and vapour.

Upper/lower explosion limits: Not explosive.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 0.92 g/cm³ @ 26 °C.

Solubility: Emulsifies in water.

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n-octanol/water partition coefficient: Not available.
Auto-ignition temperature: 340 °C.
Decomposition temperature: Not available.
Viscosity: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight or near sources of heat.

Reactivity: None known.

Possibility of Hazardous Reactions: None expected.

Conditions to Avoid: Sources of heat or exposure to sparks or flames

Incompatible Materials: Not available.

Hazardous Decomposition Products: Fire may produce harmful combustion products: such as carbon dioxide, and if combustion is complete, carbon monoxide and smoke; nitrogen, its compounds and under some circumstances, oxides of nitrogen; hydrocarbon cyanide gas; oxides of sulphur and sulphur compounds.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Calculated according to WHO

Oral LD₅₀ rat >2 000 mg/kg.

Dermal LD₅₀ rabbit >3 200 mg/kg.

Calculated according to GHS

Oral LD₅₀ rat >2 400 mg/kg.

Dermal LD₅₀ rabbit >3 200 mg/kg.

Inhalation LC₅₀ >7.6 mg/L

Skin Irritation/Corrosion Causes skin irritation.

Eye Damage/Irritation: Causes serious eye damage.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not available.

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Not available.

Specific target organ toxicity – single exposure: May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: Not available.

Aspiration hazard: May be fatal if swallowed and enters airways.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Toxic if inhaled.

Skin contact: May be harmful in contact with skin.

Eye contact: Causes serious eye damage.

Ingestion: May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

This product is considered to be toxic to aquatic organisms with long lasting effects.

ECOTOXICITY DATA: Based on active ingredient

Fish:

LC₅₀ (96 h) Rainbow trout >1.4 mg/l

Daphnia:

LC₅₀ (48 h) >7.3 mg/l

Birds:

Acute oral LD₅₀ Quail >5200 mg/kg

Pigeons >2700 mg/kg

Oral LC₅₀ (5 d) Mallard ducks >10000 mg/kg diet

Bobwhite quail >10000 mg/kg diet

Bees:

NOEL contact 0.20 mg/bee

NOEL oral 0.050 mg/bee

ENVIRONMENTAL EFFECTS:

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

Persistence and degradability: Not determined.

Bio-accumulative Potential: Not determined.

Mobility in soil: Not determined.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product 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. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting 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 third of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

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14. TRANSPORT INFORMATION

UN Number: 1993
Road Transport ADR/IRD:
 Class: 3.3
 Packaging group: III
 UN Proper Shipping Name: **Flammable** liquid N.O.S.
 (Bupirimate 250 g/l)
Maritime Transport IMDG/IMO:
 Class: 3.3
 Packaging group: III
 UN Proper Shipping Name: **Flammable** liquid N.O.S.
 (Bupirimate 250 g/l)
Marine Pollutant (Y/N): Yes
Air Transport IATA/ICAO:
 Class: 3.3
 Packaging group: III
 UN Proper Shipping Name: **Flammable** liquid N.O.S.
 (Bupirimate 250 g/l)
Special/Environmental Precautions: None known.
Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not applicable.

accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

Compiled: May 2017
Reviewed: March 2019
Revision no.: (2)
Next revision date: March 2024

For detailed information on revisions, contact the Registration holder.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:
 OSHA 1993 Regulations for Hazardous Chemical Substances.
Relevant information regarding restrictions: None.
EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)
Other national regulations: None.
Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 50, 100, 200, 250, 500 ml & 1, 5, 10, 20 and 25 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.
Additional H statements (formulants):
H302: Harmful if swallowed.
H410: Very toxic to aquatic life with long lasting effects.
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 and 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