

SAFETY DATA SHEET: Bendi 800

1. IDENTIFICATION

Product Name: Bendi 800
Other Names: CARBAMATE PESTICIDE, SOLID, TOXIC (bendiocarb)
Recommended Use: Insecticide
Distributor: Key Industries Ltd
Address: PO Box 65 070 Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 4941659
National Poisons Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Hazard Classification: 6.1C, 6.5B, 6.8C, 6.9B, 9.1A, 9.2C, 9.3B, 9.4A
Hazards: Toxic if inhaled.
 Harmful if swallowed.
 May cause an allergic skin reaction.
 May cause harm to breast-fed children.
 May cause damage to organs through prolonged or repeated exposure.
 Very toxic to aquatic life with long lasting effects.
 Harmful to the soil environment.
 Toxic to terrestrial vertebrates.
 Very toxic to terrestrial invertebrates.

3. COMPOSITION: Information on Ingredients

Ingredient	CAS Number	Concentration (%w/w)
Bendiocarb	22781-23-3	80%
Inert Additives		
Wetting Agent		4%
Fillers/dispersant		16%

4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Inhalation: Remove person to fresh air. If signs of poisoning occur get medical attention immediately. Persons assisting the patient should protect themselves from contamination. If advised by doctor or Poisons Information Centre, atropine tablets may be administered. Artificial respiration may be required.

Skin contact: If poisoned by skin absorption, remove any contaminated clothing, wash skin thoroughly with soap and water and continue flushing with water for at least 15 minutes. Seek medical attention if irritation develops or persists. If signs of poisoning occur get medical attention immediately. Persons assisting the patient should protect themselves from contamination. If advised by doctor or Poisons Information Centre, atropine tablets may be administered.

Eye contact: Check for and remove any contact lenses. Rinse immediately with water for at least 15 minutes and seek medical advice

Ingestion: Induce vomiting if patient is fully conscious, time since ingestion is less than 30 minutes and medical aid is readily available (Vomit should not get into respiratory tract). Wash out mouth with water. Keep patient at rest and seek urgent medical advice. Transport patient to doctor or hospital quickly. If advised by doctor or Poisons Information Centre, atropine tablets may be administered.

Medical attention: Basic aid, decontamination, symptomatic treatment and if necessary administration of antidote (atropine)

5. FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable. But when heated above 125° C will evolve toxic fumes of methyl isocyanate

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: when heated above 125° C will evolve toxic fumes of methyl isocyanate

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Fine dust may form explosive mixtures in air

Fire Fighting Media and Instructions: Water fog or fine spray, carbon dioxide, dry chemical, foam.

Water is the preferred extinguishing medium as it decomposes any methyl isocyanate.

Precautions for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus. Do not release contaminated water into the environment.

EMERGENCY PHONE: KEY INDUSTRIES LTD (Frank Visser, Managing Director): 0274 941 659

Date of Issue: 14 July 2015

Date for Revision: December 2017

Emergency Number: 027 4941659

SAFETY DATA SHEET: Bendi 800

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment and remove sources of ignition. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Spill: Prevent spill from entering drains, sewers or any body of water. Scoop or shovel into sealable containers for disposal, avoiding formation of a dust cloud. If the diluted spray mix is spilt, absorb with an inert absorbent, and scoop up as above. Wash contaminated surface with water. For disposal see section 13.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with skin and eyes, and do not inhale dust or spray mist.

Use only in a well-ventilated area.

Store product in the closed, original container in a safe, cool, well-ventilated area.

Do not store for prolonged periods in direct sunlight.

Storage: Store product in the closed, original container in a safe, cool, well-ventilated area.

8. EXPOSURE CONTROLS: Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment:

Eyes: Face shield or goggles

Clothing: Cotton overalls buttoned to the neck and wrist and a washable hat

Gloves: Elbow-length PVC gloves

Respiratory: Respiratory: Wear a disposable face mask in enclosed areas.

Other: After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off white powder.
Odour:	Practically Odourless.
Taste: Bitter.	Saline. (Strong.)
Molecular Weight:	223.22 g/mole
Solubility:	Forms a suspension in water
pH in 1% water	7 approx
Flammability (explosive) limits:	Lower explosion limit 30 g/m3
Flammability Octanol/water:	Is combustible.
Partition coefficient:	Log Power 1.7 at 25 degrees C (active ingredient bendiocarb)
Formulation:	Wettable Powder.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use. Fine dust may form explosive mixtures in air.
Instability Temperature:	The product is not flammable, but when heated above 125° C will evolve toxic fumes of methyl isocyanate.
Conditions of Instability:	Avoid heat, oxidizing agents and sources of ignition.

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation. Ingestion.
Inhalation:	Toxic by inhalation.
Skin contact:	Harmful in contact with skin. Poisonous if absorbed by skin contact. Will irritate the skin.
Eye contact:	Contact with the eyes will cause tears and blurred vision. Mildly irritating.
Ingestion:	Toxic if swallowed.
Acute: Oral toxicity:	LD50 rat: >179 mg/kg
Dermal toxicity:	LD50 rabbit: > 1000 mg/kg
Inhalation toxicity:	LC50 (4 h) rat: 0.3mg/L
Skin irritation:	May irritate the skin.
Eye irritation:	May irritate the eyes.
Chronic:	Repeated minor exposure may have a cumulative poisoning effect. The main health effect from repeated exposure would be toxic symptoms of cholinesterase inhibition described above. Bendiocarb is not mutagenic, carcinogenic nor teratogenic.

SAFETY DATA SHEET: Bendi 800

12. ECOLOGICAL INFORMATION

Fish toxicity:	LC50 rainbow trout: 1.55 mg/L (96 h) (Bendiocarb)
Daphnia toxicity:	EC50 Water flea (Daphnia magna): 0.0377 mg/l (48 h) (Bendiocarb)
Toxicity to algae:	EC50 Pseudokirchneriella subcapitata: 0.408 mg/l (48 h) (Bendiocarb)
Bird toxicity:	LD50 mallard ducks: 3.1 mg/kg (Bendiocarb)
LD50 quail:	19 mg/kg (Bendiocarb)
Bee toxicity:	LD50 (oral): 0.1 µg/bee (Toxic to bees) (Bendiocarb)
Other:	Toxic to earthworms
	Environmental fate, persistence and degradation: Do not contaminate any body of water

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of product only by using according to label or using an approved waste disposal contractor.

Packaging Disposal

Triple rinse container and add rinsate to the spray tank. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Incinerate via approved incinerators or crush and bury in an approved landfill. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

1. TRANSPORT INFORMATION

UN No:	UN2757
Proper Shipping Name:	CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB)
DG Class:	6.1
Subsidiary Risk:	9
Packing Group:	III
Hazchem Code:	2X

Dangerous Goods Segregation

This product is classified as Dangerous Goods by Road and Rail. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:1999 Transport of Dangerous Goods on Land for further information.

2. REGULATORY INFORMATION

Country/ Region:	New Zealand
ACVM Approval Number:	Not Required
EPA NZ Approval Number:	HSR00451
HSNO Classifications:	6.1B, 6.9A
HSNO Controls:	Approved Handler Test Certificate: Required

3. OTHER INFORMATION

Reasons for Issue:

Update format and content to comply with legislation

Abbreviations:

TWA - the highest allowable exposure concentration in an eight-hour day for a five-day working week

STEL - maximum allowable exposure concentration at any time

CAS Number: Chemical Abstracts Number

EPA NZ: Environmental Protection Agency NZ

HSNO: Hazardous Substances and New Organisms

References:

- Supplier Safety Data Sheets
- Hazardous Substances Databank
- EPA NZ Chemical Classification Information Database
- FOOTPRINT Pesticides Database

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the supplier's knowledge. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Key Industries Limited.