

# SAFETY DATA SHEET

Date of Issue: 21.01.2015

Issue: 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** BORER FLUID FN

**DESCRIPTION & USE:** Insecticide containing Fenitrothion at 7.8 g/L

**COMPANY IDENTIFICATION :** Rentokil Products NZ  
Level 1, 89 Carbine Road,  
Mt Wellington  
Auckland 1060

Private Bag 92905, Onehunga,  
Auckland 1643  
Tel (+64) (9) 573 7740  
Fax (+64) (9) 573 0264

**Emergency Telephone Numbers:** **National Poison Centre**  
**Tel 0800 POISON (0800 764 766)**

**Emergency Service (Police, Fire, Ambulance)**  
**Dial 111**

## 2. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

Product classified as hazardous according to Schedules 1 to 6 of the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 of the HSNO Act 1996.

**EPA Register No:** HSR000202

**HSNO Classifications:** 3.1D, 6.1E, 6.3B, 6.5B, 6.8B, 6.9B, 9.1A, 9.3C, 9.4B



**Signal word:** DANGER

**Hazard statements:**

H227 Combustible liquid.

H303 May be harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H316 Causes mild skin irritation.

## BORER FLUID FN

H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H433 Harmful to terrestrial vertebrates.  
H442 Toxic to terrestrial invertebrates.

### Prevention statements:

P102 Keep out of reach of children.  
P103 Read label before use.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat and hot surfaces. No smoking.  
P260 Do not breathe vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P281 Use personal protective equipment as required.

### Response statements:

P101 If medical advice needed, have product container or label at hand.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.  
P331 Do NOT induce vomiting.  
P312 Call a POISON CENTRE or doctor if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice.  
P363 Wash contaminated clothing before re-use.

P308 + P313 IF exposed or concerned: Get medical advice.

P370 + P378 In case of fire: Stop leak if safe to do so.  
P391 Collect spillage.

### Storage statements:

P403 + P235 Store in well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Disposal statement:

P501 Dispose of containers and product in accordance with any local regulations.

## 3. COMPOSITION: INFORMATION ON INGREDIENTS

Common name	CAS. No	% w/w
Fenitrothion	122-14-5	0.9 - 1.0
Aliphatic hydrocarbon	64742-48-9	≥ 99

## 4. FIRST AID MEASURES

Consult the National Poison Centre, telephone 0800 764 766 [ 0800 POISON ] or a doctor in every case of suspected poisoning. Have product label or container at hand.

## BORER FLUID FN

---

**INGESTION:** Do NOT induce vomiting. Immediately seek medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.

**EYES:** Hold eyes open and carefully rinse eyes with running water for 15 minutes. Remove contact lenses, if present and easy to do after first 5 minutes then continue rinsing. Seek medical advice if eye irritation persists.

**SKIN:** Wash with soap and plenty of water. Get medical attention if irritation persists or if a rash develops.

**INHALATION:** Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**ADVICE TO DOCTOR:** Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider gastric lavage with protected airway; administration of activated charcoal.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** 62 -66 °C

**FLAMMABLE LIMITS:** LFL: 0.70% v/v UFL: 6.0% v/v

**EXTINGUISHING MEDIA:** Water fog, foam, CO<sub>2</sub>, dry chemical. Do not use water jet.

**FIRE & EXPLOSION HAZARDS:** Combustible product. No smoking. Product will float on water and can be reignited on surface water. Vapour heavier than air, spreads along the ground and distant ignition is possible. Keep adjacent containers cool by spraying with water.

**FIRE-FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus and personal protection clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**SPILLS:** Contain spillage. Wear protective clothing/gloves/eye protection. Shut off leaks if safe to do so. Remove/isolate ignition sources. Take precautionary measures against static discharge. Bond and earth all equipment. Prevent contamination of waterways. Recover liquid spills into labeled container that can be sealed. Allow residues to evaporate or soak up with an appropriate inert absorbent material, e.g. sand, earth, vermiculite. Remove contaminated materials including soil for disposal to approval landfill.

### 7. HANDLING AND STORAGE

**HANDLING:** Read label before use. Keep out of reach of children. No smoking. Wear rubber or PVC gloves. Wash hands and exposed skin before eating, drinking or smoking and after work.

**STORAGE:** Store locked up in closed original container in a cool dry safe place out of reach of children and pets, and away from sources of ignition, heat, food, drink and animal feedstuffs.

### 8. EXPOSURE CONTROLS: PERSONAL PROTECTION

**EXPOSURE GUIDELINES:** No Workplace Exposure Standard (WES) has been set by WorkSafe NZ for this substance. However an exposure limit has been set for a similar hydrocarbon solvent: White spirit WES-TWA 100 ppm (525 mg/m<sup>3</sup>)

## BORER FLUID FN

---

**ENGINEERING CONTROLS:** Use in well-ventilated area.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**Face/Eye protection:** Safety glasses with side shields recommended.

**Skin protection:** Rubber (nitrile , neoprene) or PVC gloves.

**Respiratory protection:** Should not be necessary in well-ventilated areas. In confined areas or where the air concentration may meet or exceed the WES-TWA level, use a respirator with a filter suitable for organic gases or vapours (boiling point greater than > 65 °C) that is compliant with national standards..

**Other:** It is recommended to wear chemical resistant overalls, and safety shoes or boots.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Colourless
Odour	Characteristic solvent
Boiling point (°C):	Typical 179 - 214
Flash point (°C):	62 - 66
Auto ignition temperature (°C):	235 - 315
Vapour pressure (Pa at 0°C):	30 - 93
Specific gravity at 15°C, g/ml:	0.78 - 0.81
Solubility in water:	Insoluble
pH:	Not applicable

### 10. STABILITY AND REACTIVITY

**STABILITY (CONDITIONS TO AVOID):** Heat, sparks, open flames and other ignition sources.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Dependent on conditions. Expect complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds.

**HAZARDOUS POLYMERIZATION:** Not known to occur.

### 11. TOXICOLOGICAL INFORMATION

**POTENTIAL HEALTH EFFECTS:** This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

**INGESTION:** May be harmful if swallowed resulting in gastrointestinal disturbances, nausea and vomiting. Risk of aspiration into lungs which may result in chemical pneumonitis and be fatal.

**EYE:** May be mildly irritating when in contact with eye tissue.

**SKIN:** Mild skin irritant. Prolonged or repeated contact may defat skin and also cause contact dermatitis.

**INHALATION:** May be irritating to respiratory tract if exposed to high concentrations or used in poorly ventilated areas.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Fenitrothion is identified as having harmful effects on nervous system when oral, dermal or inhalation exposure routes.

**CANCER INFORMATION:** No adverse effects identified.

## BORER FLUID FN

---

**REPRODUCTIVE OR TERATOLOGY (BIRTH DEFECTS) DEFECTS:** Fenitrothion identified as being suspected of causing adverse effects, e.g. affecting off-spring survival and body weight.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** No adverse effects identified.

**TOXICOLOGY DATA:**

Fenitrothion    Cat, oral, LD<sub>50</sub> 142 mg/kg  
                   Rat, inhalation, LC<sub>50</sub> 5.0 mg/L  
                   Mouse, dermal, LD<sub>50</sub> 2500 mg/kg

### 12. ECOTOXICITY INFORMATION

Product is classified as highly toxic to aquatic life, harmful to terrestrial vertebrates and toxic to terrestrial invertebrates.

**ENVIRONMENTAL FATE:** Not likely to bioaccumulate.

**MOVEMENT AND PARTITIONING:** Hydrocarbon solvent floats on water and absorbs to soil and has low mobility.

**DEGRADATION AND PERSISTENCE:** Product expected to rapidly biodegrade. Solvent also oxidizes rapidly by photo-chemical reactions in air.

**ECOTOXICOLOGICAL DATA:**

Fenitrothion    Fish (*Acanthopagrus schlegeli*) LC<sub>50</sub> (96hr) 0.18 mg/L  
                   Crustacean (*Macrobrachium iamarrei*) LC<sub>50</sub> (48 hr) 0.0031 mg/L  
                   Algae (*Staurastrum* green algae) EC<sub>50</sub> (96 hr) 0.8 mg/L  
                   Bird; Ring-necked pheasant (*Phasianus colchicus*) LD<sub>50</sub> 10.5 mg/kg  
                   Honey bee (*Apis mellifera*) LD<sub>50</sub> 0.018 µg/bee

### 13. DISPOSAL CONSIDERATIONS

Dispose of waste or contaminated materials to landfill. Empty container completely, vent and allow residues to dry away from ignition sources then dispose of safely. Do not use for storage of other products; containers may contain hazardous residues. Crush and burn or bury in approved landfill accordance with local authority regulations.

### 14. TRANSPORT REGULATIONS

**TRANSPORT:**

UN Number:                            3082  
PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
   LIQUID, N.O.S. (CONTAINS FENITROTHION)  
Class:                                      9  
Packing Group:                        III  
HAZCHEM:                              3Z

**DANGEROUS GOODS SEGREGATION:**

This product is classified as a Dangerous Good for Land Transport. Please consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 *Transport of Dangerous Goods on Land* for further information.

## BORER FLUID FN

---



### 15. REGULATORY INFORMATION

NZ HSNO Register: HSR000202; Ready to use liquid containing 7.8 g/litre fenitrothion. Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for applicable Controls under the HSNO Act 1996.

Note the default controls for having an Approved Handler and for Tracking have been waived.

Control 77A applies: This substance must not be applied onto or into water.

### 16. OTHER INFORMATION

**Date of Issue:** 21 January, 2015  
**Reason for issue:** 5-year review of SDS.  
**Replaces:** Safety Data Sheet dated 13 August 2010

**Abbreviations:**

EPA Environmental Protection Authority  
GHS Global Harmonised System  
HSNO Hazardous Substances and New Organisms Act  
NZIoC New Zealand Inventory of Chemicals  
STEL Short Term Exposure Limit (15 minute exposure period)  
TWA Time-Weighted Average (8 hours exposure period)  
WES Workplace Exposure Standard

**References:**

EPA website [www.epa.govt.nz](http://www.epa.govt.nz)  
Supplier Safety Data Sheets

Before using any product, read its label carefully and ensure that you understand its contents. This information is, to the best of our knowledge and belief, accurate and reliable at the date of publication. The information relates only to the specific material designated and may not be valid for such material if it is used in combination with any other material(s). Rentokil Initial Limited disclaims any liability for loss or damage suffered from the use of this information. This does not affect your statutory rights. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for his/her own particular use.

END of SAFETY DATA SHEET