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# COOPERS ENVIRONMENTAL SCIENCE (PTY) LTD.



## Material Safety Data Sheet

Revised on: 1 June 2014

Revision number 5

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### 1. Substance/preparation and company identification

#### **RESKOL<sup>®</sup> 64**

Use: Public Health, Insecticide

Company:

Coopers Environmental Science (Pty) Ltd.

Reg. No. 2000/023667/07

P.O. Box 14374

BREDELL 1623

SOUTH AFRICA

TEL: (011) 979-4246/7

Emergency contact numbers

Tygerberg Poison Center: +2721 931 6129

Griffon Poison Information Centre - 082 446 8946

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### 2. Composition/information on ingredients

**Cas Reg No:** 122-14-5

**UN No:** 3017

**UMCO:** 6, 1. 3

The product is chemically organophosphorus insecticide which is a contact insecticide with a stomach action. It is used for the control of insect pests in non-sensitive areas.

**Description:**

A clear brown miscible oil-based liquid.

GCPF Code: EC

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### 3. Hazard identification

**Hazards: Primary - Organophosphorus pesticides, liquid, toxic, flammable, n.o.s.**

Contains: Fenitrothion.

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### **Nature of Hazard:**

- Skin contact:** The product is rapidly absorbed through intact skin. Prolonged contact with the concentrate may cause irritation and redness.
- Eye contact:** Concentrated product may cause irritation, redness, pain and blurred vision.
- Swallowed:** The concentrate is moderately toxic. Small amounts swallowed incidental to normal handling operations may be harmful. However, swallowing larger quantities may cause serious injury or even death. If the liquid entered the lungs it may cause lung damage or even death due to pneumonia.
- Inhalation:** Inhalation of excessive amount of spray may cause cholinesterase inhibition. Prolonged exposure to solvent may cause respiratory irritation and central nervous system depression.
- Chronic effects:** Chronic symptoms in humans include general malaise, fatigue, headache, loss of memory and ability to concentrate. Fenitrothion is not carcinogenic, mutagenic, embryotoxic or teratogenic.

### **4. First-aid measures**

- Skin contact:** Wash affected area with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing separately, Get medical attention.
- Eye contact:** Wash eyes thoroughly for 15 minutes with copious amount of water with eyelids open. Seek medical attention.
- Swallowed:** If poisoning occurs, contact a doctor. Do not give fluids or induce vomiting if person is unconscious or having convulsions. Get affected person to a doctor or hospital.
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Inhalation: Remove victim to fresh air. If not breathing administer artificial respiration. Avoid unprotected mouth to mouth resuscitation.

GET MEDICAL ATTENTION

**Note to physician:** A cholinesterase inhibitor. Treat symptomatically. In case of poisoning, use antidote immediately after establishing an open airway and respiration. Atropine injection is the preferred antidote. Oximes such as PAM protoplasm may be used in conjunction with atropine.

SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS SDS TO A MEDICAL PRACTITIONER

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## 5. Fire-fighting measures

There is a moderate risk of an explosion from this product. If ignited fire fighters should take care and necessary precautions should be taken.

Flashpoint: 36°C (open cup) 43 °C (closed cup)

Breathable air apparatus may be required in confined area. Stay upwind.

Flammable limits in air: Not determined

Auto ignition Temperature: Not determined

Extinguishable Media: Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer or ordinary) for large fires. Cool containers from maximum distance.

Special firefighting procedures: Fire fighters should use self-contained breathing apparatus and full turnout gear. Prevent runoff of fire-water. Avoid exposure to smoke. Stay upwind.

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## 6. Accidental release measures

Steps to be taken if material is spilled or released:

Soak up spillage with dry sand, shovel up carefully and dispose of as for toxic waste in accordance with local and international regulations

Protective clothing to be worn when clearing spillage of the concentrate liquid.

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## 7. Handling and storage

### Storage:

Store out of reach of children and pets.

Store in a cool, dry place away from sources of heat and naked flames.

Store away from food, eating utensils, foodstuffs and drinking water.

### Handling Precautions:

For use as directions on the label only. Wash thoroughly after application. Remove and wash contaminated clothing after use. Wash applicator, receptacles, etc., thoroughly before re-using with other materials.

### Note:

During application and when cleaning equipment and protective clothing, contamination of all sources of drinking water, rivers, dams, crops or grazing shall be prevented.

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## 8. Exposure controls and personal protection

### Exposure standards:

Exposure limits are not available for Fenitrothion. The acceptable daily intake for Fenitrothion is 0.003 mg/kg/day.

Good general ventilation should be sufficient for most conditions.

Local exhaust ventilation may be necessary for some operations.

### Respiratory Protection:

When airborne exposure guidelines and/or comfort levels may be exceeded use and approved air-purifying respirator. For emergency conditions, use and approved positive-pressure self-contained breathing apparatus.

### Hand/skin Protection:

Use protective clothing impervious to this material. Selection for specific items will depend on operation.

### Eye/Face Protection:

Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

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## 9. Physical and chemical properties

Description: A clear brown, miscible liquid free of visible impurities. (EC)

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Solubility: Forms emulsion.  
Flash point: 36°C (open cup) 43 °C (closed cup)

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## 10. Stability and reactivity

Solubility: Fenitrothion is practically insoluble in water but readily soluble in alcohols, esters ketones and aromatic hydrocarbons.

Stability: Stable under room temperature.

Compatibility: The product is compatible with most insecticides and fumigants, but incompatible with alkaline compounds.

Degradation: Fenitrothion is oxidised to phosphate and hydrolyzed to phosphorothioic acid and 3-methyl-4-nitrophenol.

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## 11. Toxicological information (active ingredient)

### Toxicity (technical active ingredient)

Acute oral LD<sub>50</sub> (rat): 1.700-1.720 mg/kg

Acute dermal LD<sub>50</sub> (rat): 810-840 mg/kg

Toxic to fish: Yes

LC<sub>50</sub> for bluegill sunfish: 0.002 – 0.010 mg/L(96h)

Toxic to bees: Yes

Toxicity to birds: Moderate to highly toxic to birds

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## 12. Ecological information

Toxic to bees and fish

Do not contaminate dams, rivers or streams with pesticide or used container.

Puncture top, bottom and sides of empty containers, then crush and bury in an approved landfill, or bury under at least 500mm of soil in a non-crop, non-pasture area.

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## 13. Disposal considerations

### Disposal of Residue

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Residue to be disposed of as for toxic and flammable waste in accordance with local/national regulations. DO NOT burn.



#### Disposal of Used Packaging Material

Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsing to the contents of the spray tank before disposing of the container. Empty containers to be disposed of in accordance with local/national regulations. DO NOT re-use for any other purpose. DO NOT burn.

Puncture top, bottom and sides of empty containers, then crush and bury in an approved landfill, or bury under at least 500mm of soil in a non-crop and non-pasture area.

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### **14. Transport information**

UN No:	3017
Class:	6.1 Organophosphate
IMDG:	Yes marine pollutant
Ems:	•
MFAG:	505
Subsidiary risk:	•
Packing group:	III
Declaration for land shipment:	3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC , FLAMMABLE
Declaration for sea shipment:	3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC , FLAMMABLE
Declaration for shipment by air:	3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC , FLAMMABLE

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### **15. Regulatory information**

The product is registered as L 4618 under the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, Act 36, 1947.

Hazard Symbol: Xn – Harmful

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Risk Phrases: Flammable. (R10)  
Harmful if swallowed. (R22)  
Irritation to skin (R39)

Safety Phrases: Keep out of reach of children (S2)  
Keep away from food, drink and animal feeding stuffs (S13)  
When using do not eat, drink or smoke. (S20/21)  
Avoid contact with skin (S24)  
If swallowed, do not induce vomiting: seek medical advice immediately and show  
this container or label. (S62)

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## 16. Other information

### Classification and labelling

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents the data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications – usage in such may cause risks not mentioned in the sheet. Do not use for other application(s) without seeking advice from manufacturer. Applicable Laws Refer to the Dangerous Substance Directive (67/548/EEC) Refer to the Dangerous Preparations Directive (88/379/EEC)

### **Consult the label for directions for use.**

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS  
SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.

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