

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** LARVAKIL SC

**Use:** Public Health, Insecticide

**Company name:**

Coopers Manufacturing CC  
Reg. No. 2004/015647/23  
91 Maple Road  
Pomona  
Kempton Park, 1630  
Tel: (011) 979-4246/7

**Emergency Contact Numbers:**

Griffon Poison Information Centre: 082 446 8946  
Poisons Information Centre: 0861 555 777

## 2. HAZARDS IDENTIFICATION

**SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]**

Hazard classes	Hazard categories	Hazard codes
Acute Tox. (oral)	Category 5	H303
Acute Tox. (dermal)	Category 5	H313
Skin irritation	Category 2	H315
Serious eye irritation	Category 2	H319
Specific target organ toxicity – Repeated exposure	Category 2	H373
Hazardous to the aquatic environment – Acute hazard	Category 1	H400

**GHS classification:** Category 5

**Hazard pictograms:**



**Signal word:** Warning

**Hazard statements:**

H303: May be harmful if swallowed.  
 H313: May be harmful in contact with skin.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H373: May cause damage to organs (kidneys) through prolonged exposure via the oral route.  
 H400: Very toxic to aquatic life.

**Precautionary statements:**

P101: If medical advice is needed, have product container or label at hand.  
 P102: Keep out of reach of children.  
 P103: Read carefully and follow all instructions.  
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264+P265: Wash hands, forearms and face thoroughly after handling. Do not touch eyes.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P317: IF SWALLOWED: Get medical help.  
 P302+P317: IF ON SKIN: Get medical help.  
 P302+P352: IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P319: Get medical help if you feel unwell.  
 P321: Specific treatment (see supplemental first aid instructions on this label).  
 P332+P317: If skin irritation occurs: Get medical help.  
 P337+P317: If eye irritation persists: Get medical help.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P391: Collect spillage.  
 P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**3. COMPOSITION / INFORMATION ON INGREDIENTS:**

**Substance / Mixture:** Mixture

**Composition:**

CAS NO	CHEMICAL NAME	CONCENTRATION	GHS CLASSIFICATION
35367-38-5	Diflubenzuron	25 – 50 %	Acute Tox. 5 (oral), H303 Acute Tox. 4 (dermal), H312 Acute Tox. 4 (inhalation), H332 Aquatic Acute 1, H400
107-21-1	Monoethylene glycol	2.5 – 10 %	Acute Tox. 4 (oral), H302 STOT RE 2, H373
1322-93-6	Sodium di-isopropyl naphthalene sulfonate	0.5 – 2.0 %	Acute Tox. 4 (oral), H302 Skin Irrit. 1, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412

#### 4. FIRST-AID MEASURES

**General First Aid Measures:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First Aid Measures:**

**Inhalation:** Allow affected person to breathe fresh air. Allow the victim to rest.

**Skin contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Eye contact:** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**Symptoms of human poisoning:** May cause damage to organs (kidneys). May be harmful if swallowed. Causes skin irritation and serious eye irritation.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Foam, dry powder, carbon dioxide, water spray and sand.

**Unsuitable extinguishing media:** Do not use a heavy stream.

**Specific hazards:** No additional information available.

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

**Precaution during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:**

**Emergency procedures:** Evacuate unnecessary personnel.

**For emergency responders:**

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Ventilate area.

**Environmental precautions:**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

**Methods and material for containment and cleaning up:**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

## 7. HANDLING AND STORAGE

### Handling:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

### Storage:

Keep only in the original container in a cool, well-ventilated place away from children, uninformed persons and animals. Keep container closed when not in use.

**Incompatible products:** Strong bases. Strong acids.

**Incompatible materials:** Sources of ignition. Direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:** No information available.

### Appropriate engineering controls:

Good general ventilation should be sufficient to keep the airborne concentrations as low as possible. Ensure adequate ventilation in confined areas.

### General safety and hygiene measures:

Avoid all unnecessary exposure. Wash hands thoroughly after handling the product, before eating, smoking and using the lavatory and at the end of the working period. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### Skin and hand protection:

Wear protective gloves. Work clothes including overalls, shoes and socks are required to prevent skin contact and contamination of personal clothing. Keep working clothes separately.

### Eye and face protection:

The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

### Respiratory protection:

Not needed for normal use if the work area is well ventilated. Respiratory protection is required when ventilation is inadequate, when discomfort is experienced or in case of emergencies, a reusable half mask with gas/vapour filter is recommended.

### 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.

### Environmental exposure controls:

Avoid release to the environment. Keep container closed when not in use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	Liquid
<b>Colour:</b>	Off-white
<b>Odour:</b>	Virtually odourless.
<b>Odour threshold:</b>	No data available.
<b>pH value:</b>	7.1 (1% suspension in water)
<b>Melting point:</b>	No data available.
<b>Boiling point:</b>	No data available.
<b>Flash point:</b>	Substance/product is non-flammable.
<b>Evaporation rate:</b>	Not applicable
<b>Flammability:</b>	Not required: Larvakil SC is a water based suspension concentrate and does not contain flammable solvents.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Vapour pressure:</b>	No data available.
<b>Density:</b>	1.2 g/cm <sup>3</sup>
<b>Relative vapour density (air):</b>	No data available.
<b>Solubility in water:</b>	No data available.
<b>Log Pow:</b>	No data available.
<b>Thermal decomposition:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Explosion hazard:</b>	Not explosive.
<b>Oxidising properties:</b>	Not oxidizing.

**10. STABILITY AND REACTIVITY****Reactivity:**

Stable under normal conditions of storage and use.

**Chemical stability:**

Not established.

**Possibility of hazardous reactions:**

Not established.

**Conditions to avoid:**

Direct sunlight. Extremely high or low temperatures.

**Incompatible materials:**

Strong acids. Strong bases.

**Hazardous decomposition products:**

Carbon monoxide, carbon dioxide.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:**

**Oral LD<sub>50</sub>:** 4524.89 mg/kg (calculated)

**Dermal LD<sub>50</sub>:** 2564.10 mg/kg (ATE)

**Inhalation LC<sub>50</sub>:** 6.67 mg/ℓ/4 hr (calculated)

<b>Skin corrosion / irritation:</b>	Causes skin irritation.
<b>Serious eye damage / irritation:</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitisation:</b>	Not classified.
<b>Germ cell mutagenicity:</b>	Not classified.
<b>Carcinogenicity:</b>	Not classified.
<b>Reproductive toxicity:</b>	Not classified.
<b>STOT-single exposure:</b>	Not classified.
<b>STOT-repeat exposure:</b>	May cause damage to organs (kidneys) through prolonged or repeated exposure via the oral route.
<b>Aspiration hazard:</b>	Not classified.
<b>Potential adverse human health effects and symptoms:</b>	May be harmful if swallowed. May be harmful in contact with skin.

## 12. ECOLOGICAL INFORMATION

<b>Hazardous to the aquatic environment, short term: (acute)</b>	Very toxic to aquatic life.
<b>Hazardous to the aquatic environment, long term: (chronic)</b>	Not classified.

<b>ATE calculated fish:</b>	0.30 mg/ℓ
<b>ATE calculated Daphnia:</b>	0.0026 mg/ℓ
<b>ATE calculated algae:</b>	20 mg/ℓ
<b>Persistence and degradability:</b>	May cause long-term adverse effects in the environment.
<b>Bioaccumulative potential:</b>	Not established.
<b>Mobility in soil:</b>	Not established.
<b>Other adverse effects:</b>	Avoid release to the environment.

## 13. DISPOSAL CONSIDERATIONS

**Waste:** Open dumping or burning of **Larvakil SC** is prohibited. 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 source with this product or with used containers. The product may be taken to a registered waste disposal site or incineration plant.

**Container:** Do not re-use the empty container for any other purpose. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

## 14. TRANSPORT INFORMATION

<b>UN Number:</b>	3082
<b>Road Transport ADR / ORD:</b>	

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.

**Maritime Transport IMDG / IMO:**

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.  
 Marine pollutant: Yes

**Air Transport IATA / ICAO:**

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.

**Special / Environmental Precautions:**

Do not release to the environment.  
 Wedge drums tightly to avoid movement when transporting by sea.

**Transport in bulk:**

Refer to MARPOL 73/78, Annex II and the IBC code.

**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 500 ml and 1 l plastic containers and labelled according to South African regulations and guidelines.

**Other hazard statements, abbreviations and explanations:**

**H302:** Harmful if swallowed.

**H312:** Harmful in contact with skin.

**H314:** Causes severe skin burns and eye damage.

**H318:** Causes serious eye damage.

**H332:** Harmful if inhaled.

**H412:** Harmful to aquatic life with long-lasting effects.

**IATA:** International Air Transport Association.

**IBC:** International Bulk Chemical.

**ICAO:** International Civil Aviation Organization.

**IMDG:** International Maritime Dangerous Goods.

**IMO:** International Maritime Organization.

**LD<sub>50</sub> value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

**OEL/RL:** Occupational exposure limit-recommended limit.

**PEL:** Permissible exposure limits.

**TWA:** Time-weighted average – the average exposure over a specified period, usually a nominal eight hours.

**ST/STEL:** Short-term exposure limits.

**Disclaimer:**

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information on this sheet is not a specification; it does not guarantee specific properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. 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. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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