

# UNIVERSAL UNIGOS AEROSOL

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Product Name:** UNIGOS AEROSOL  
 Insecticide  
**UN No.** 1950  
**Company:** Universal Crop Protection (Pty) Ltd.  
**Co. Reg. No.:** 1983/008184/07  
 PO Box 801,  
 Kempton Park, 1620, South Africa  
**Telephone:** (011) 396 2233  
**Fax:** (011) 396 4666  
**Website:** [www.villacrop.co.za](http://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. COMPOSITION / INFORMATION ON INGREDIENTS

**Common Name:** Dichlorvos  
**TSCA/CAS No.:** 62-73-7  
**Chemical family:** Organophosphate  
**Use:** Control of household and public health insect pests.  
**Formulation:** Aerosol  
**Hazardous Components:** Dichlorvos liquid immiscible with water.

## 3. HAZARD IDENTIFICATION

Highly flammable.  
 May evaporate quickly.  
 The vapour may be visible.  
 The vapour is heavier than air and spreads along ground.  
 Heating will cause pressure rise, sever risk of bursting and subsequent explosion.  
 Highly toxic.  
 Marine pollutant.

### 3.1 Human health

Symptoms may develop after several hours.

### Skin contact:

Prolonged contact may cause some irritation.

### Eye contact:

Prolonged contact may cause some irritation.

### Ingestion:

If swallowed may cause poisoning.

### Inhalation:

May be poisonous through inhalation of spray mist.

### Long term effects:

No adverse effects are known.

## 4. FIRST AID MEASURES AND PRECAUTIONS

### Skin contact:

Remove contaminated clothing, rinse skin with plenty of soap and water for at least 20 minutes.

### Eye contact:

Flush for 20 minutes with copious amounts of water. Hold eyelids open while washing. If irritation continues, get medical attention.

### Ingestion:

Seek medical advice.

### Inhalation:

Immediately remove patient to fresh air. If not breathing give artificial respiration. Do not use mouth-to-mouth, if victim has inhaled or ingested the substance, induce artificial respiration with the aid of a pocket mask with a one-way valve. If breathing of victim is difficult administer oxygen. Effects of exposure may be delayed.

### Emergency antidote:

None applicable. Treat symptomatically.

### Medical advice:

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Flammability:

Highly flammable

### Flash point:

Very low flash point

### Explosivity:

Explosive

### Extinguishing media:

May produce toxic fumes if strongly heated.  
 Use of water spray when fighting fire may be inefficient.

**Small fire:** Dry chemical, CO<sub>2</sub>, Water spray or alcohol-resistant foam.

**Large fires:** Water spray, fog or alcohol-resistant foam.

Move containers from fire area if you can do it without risk.  
 Fire fighters should ONLY wear structural protective clothing and breathing apparatus. Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing which is specifically recommended by the manufacturer.

Avoid breathing toxic vapours. Keep up-wind.

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Dike fire control water for later disposal. Do not scatter the material. Do not use straight streams.  
 Keep unauthorised personnel away.  
 Call Fire Brigade. Avoid any fumes (toxic). Stand up-wind of the fire. Wear self-containing breathing apparatus if fumes are being entered. Use plenty of water. Open doors and windows of the store to give maximum ventilation. If spillage enters any drains or watercourse, inform the local authorities immediately.

### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Wash away small spills with water. Larger quantities absorb earth or sand and place into containers for disposal.

### 7. HANDLING AND STORAGE REQUIREMENTS

**Handling:**

Separation of at least 3M from the following classes is recommended:

-Corrosives.

Fire separation of at least 5M or 4Hr fire resistant wall from the following classes is recommended:

-Flammable gases, Flammable solids, spontaneously combustibles.

**Storage:**

Store in original storage containers.

Storage in the same room or space is prohibited with the following classes:

-Explosives, Oxidizing agents, Organic peroxides & Radioactive.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

**Occupational exposure limits:**

**Controls:**

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release.

Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.

Supply sufficient replacement air to make up for air removed.

Have a safety shower/eye wash fountain readily available in the immediate work area.

**Personal Protection:**

Wear suitable gloves when handling the product over long periods. After handling product, wash hands and observe good hygiene practice.

Have appropriate equipment available for use in emergencies.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

Atomizer can

### 10. STABILITY AND REACTIVITY

**Stability:**

Stable in original closed can. Decomposes rapidly in soil.

**Hazardous reaction / decomposition products:**

May emit toxic fumes if heated in a fire.

**Incompatibility:**

None

### 11. TOXICOLOGICAL INFORMATION

**Acute oral LD<sub>50</sub>:**

200 mg a.i./kg

**Acute dermal LD<sub>50</sub>:**

600 mg/kg

**Acute Inhalation-rat (4h/20<sup>o</sup>) LC<sub>50</sub>:**

600 mg/m<sup>3</sup>

1L/ calculated, LC<sub>50</sub>: 200 mg/m<sup>3</sup>

### 12. ECOLOGICAL INFORMATION

Animals In mammals. Following oral administration, rapidly degraded in the liver by hydrolysis and O-demethylation, with a half-life of c. 25 minutes.

In Plant: Rapidly decomposed

Soil/Environment: Non-persistent, with rapid decomposition in the atmosphere. Undergoes hydrolysis in damp media, with the formation of phosphoric acid and CO<sub>2</sub>.

**ECOTOXICOLOGY:**

**Birds:**

Acute oral LD<sub>50</sub> for bobwhite quail 24 mg/kg.

Sub-acute acute oral LD<sub>50</sub> (8d) for Japanese quail 300 mg/kg.

**Fish:** LC<sub>50</sub> (96 h) for rainbow trout 200, golden orfe 450 µg/l.

**Daphnia:** LC<sub>50</sub> (48 h) 0.19 µg/l.

**Bees:**

LD<sub>50</sub> (48 h) (oral) 0.29 µg/bee

**Algae:**

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EC<sub>50</sub> (5d) for *Scenedesmus subspicatus* 52.8 mg/l

**Worms:**

LC<sub>50</sub> (7 d) for *Eisenia foetida* 15 mg/kg soil;

LC<sub>50</sub> (14 d) 14 mg/kg

## 13. DISPOSAL CONSIDERATION

Disposal Method Product: There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal Method Packaging: Disposal in accordance with local legal provisions.

## 14. TRANSPORT INFORMATION

**UN No.:** 1950

**Road Transport ADR/IRD:**

Class: Packing group: I/II  
 Shipping name: Aerosol + Marine pollutant

**Maritime Transport IMDG/IMO:**

Class: 2.2 + Marine pollutant  
 Packing group: I/II  
 Shipping name: Aerosol + Marine pollutant

## 15. REGULATORY INFORMATION

**Symbol:** T, X<sub>n</sub>, Xi, N

**Indication of danger:** Toxic, Irritant and Marine pollutant

**Risk phrases:**

- R 5** Heating may cause an explosion.
- R 11** Highly flammable
- R 23/24/25** Toxic by inhalation, in contact with skin and if swallowed.
- R36/38** Irritant to eyes and skin
- R 52** Harmful to aquatic organisms.

**Safety phrases:**

- S 1/2** Keep locked up and out of the reach of children.
- S 3/7/9** Keep container tightly closed in cool, well ventilated place
- S 13** Keep away from food, drinks and animal feeding stuffs.
- S 15** Keep away from heat.
- S 26** In case of contact with eyes, rinse immediately with plenty of water

- S 29** After contact with skin wash immediately with water
- S 29/35** Do not empty into drains; dispose of this material and its container in a safe way
- S 36/37/39** Wear suitable protective clothing, gloves and eye/face protection.
- S 45** In case of an accident or if you feel unwell, seek for medical advice
- S 60** This material and its container must be disposed of as hazardous waste.
- S 61** Avoid release to the environment. Refer to special instructions/Safety data sheets

## 16. OTHER INFORMATION

**Pack sizes:**

**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 accepted for errors and omissions or the consequence thereof.

## END OF DOCUMENT

**Compiled:** April 2015  
**Reviewed:** June 2019  
**Revision no.:** (2)  
**Next revision date:** June 2024

For detailed information on revisions, contact the Registration holder.