

## VILLA CHARGE

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Product Name:** CHARGE  
 Non-ionic Adjuvant  
**UN No.** 3082  
**Supplier:** Villa Crop Protection (Pty) Ltd.  
 PO Box 10413  
 Aston Manor, 1630, South Africa  
**Telephone:** (011) 3962233  
**Fax:** (011) 3964666  
**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:** Polyether-polymethylsiloxane-copolymer

**TSCA/CAS NO:** 67674-67-3

**Chemical family:** Polyether-Modified  
 Trisiloxane

**Composition:** Proportion (w/w)

Polyether-polymethylsiloxane-copolymer 100 % min

**Use:** A non-ionic adjuvant with spreading and penetrating properties recommended for the use with pesticides and plant nutrients.

**Symbol:** N, X<sub>i</sub>, X<sub>n</sub>  
 Environmentally Dangerous, Irritating and Harmful Substance.

**Risk phases:** R 20/21, R 38, R 41, R 51/53

### 3. HAZARD IDENTIFICATION

**Potential hazard effects:** Harmful by inhalation, ingestion and in contact with skin. Irritating to eyes and skin.

Risk of serious damage to eyes.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**MARINE POLLUTANT.**

### 4. FIRST AID MEASURES AND PRECAUTIONS

**General Advice:** If poisoning occurs, contact a doctor or Poison Information Centre.

**Inhalation:** Remove affected person to fresh air until recovered.

**Skin contact:** Remove soiled or soaked clothing immediately. In case of contact with skin, wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.

**Eye contact:** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.

**Ingestion:** If swallowed do not induce vomiting; seek medical advice immediately and show this MSDS. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Do not give anything by mouth to a semi-conscious or unconscious person. Give a glass of water.

**Notes to Physician:** Treat symptomatically. No specific antidote known.

### 5. FIRE-FIGHTING MEASURES

**Flammability:** Non-flammable.

**Flash point:** N/A.

**Fire and Explosive Hazard:** If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

**Hazardous composition:** In the event where the product is strongly heated carbon dioxide, carbon monoxide, silicon dioxide can be release as products of combustion.

**Fire Fighting Media:** Water, foam, Dry chemical or CO<sub>2</sub>

**Fire Fighting Instructions:** Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Runoff from fire control may be a pollution hazard. Prevent runoff is possible.

### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

**Personal precautions:** Wear suitable protective clothing, chemical goggles and respirator. (See section 8).

**Environmental precautions:** Do not allow material to enter sewers, surface, ground water and soil, if containers occurs inform authorities.

**Methods for cleaning up/taking up:** Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect in sealed open top containers for disposal. Final clean-up with degreasing agent or detergent is advised.

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### 7. HANDLING AND STORAGE REQUIREMENTS

**Handling:** Prevent formation of aerosols or vapours during processing and application. Do not breathe vapour or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Avoid dust generation.

**Storage:** Store in original containers and keep closed, under normal condition. Keep out of reach of children and keep away from food or drink and animal feeding stuffs.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering measures to reduce exposure:** Exhaust ventilation in not required.

**Respirators:** Chemical respirator. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. Do not inhale aerosols.

**Hand Protection:** Chemical resistant gloves.

**Eye Protection:** Safety goggles or face shield. Wear coverall chemical splash goggles, and a face shield when the possibility exists for eye or face contact from airborne material.

**Skin/Face Protection:** Wear impermeable protective clothing. Chemical resistant boots, long sleeved shirt, long pants. A protective ointment is recommended.

**Hygiene Measures:** Do not eat, drink or smoke when handling the product, wash hands thoroughly after handling, wash clothes before re-use, dispose of eyewash facility and safety shower. Avoid contact with skin, eye and clothes.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Homogenous transparent liquid.

**Colour:** Colourless to light yellowish.

**Odour:** Slight characteristic odour.

**Relative density:**  $1.02 \pm 0.02 \text{ g/cm}^3$  at 20°C.

**pH (1%):** 6.0 to 7.0.

**Viscosity:** 45-100 mPa.s 25°C.

**Surface tension (0.1%):**  $20.8 \pm 0.5 \text{ mN/m}$  at.

**Explosive Properties:** Non-explosive under normal storage conditions.

**Solubility in water:** Soluble in water.

### 10. STABILITY AND REACTIVITY

**Stability:** Stable for a period of 2 years in its original package under ambient temperature.

**Conditions to avoid:** None with proper storing and handling.

**Hazardous reaction:** None with proper storing and handling.

**Note:** Harmful by inhalation and in contact with skin. Risk of serious damage to eyes.

### 11. TOXICOLOGICAL INFORMATION

**Acute oral LD<sub>50</sub>:** > 2150 mg/kg (rat).

**Acute dermal LD<sub>50</sub>:** > 4640 mg/kg (rat).

**Acute inhalation LC<sub>50</sub>:** > 2.02 mg/l (4 h).

**Irritation:** Slight irritant to skin and Moderate irritant to eyes.

**Sensitization:** Not a skin sensitizer in animals.

**Chronic effects:** No chronic effects expected.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

**Fish:** LC<sub>50</sub> Species: Rainbow trout  
Dose: 2.1 mg/l

**Daphnia:** EC<sub>50</sub> Species: *Daphnia magna*  
Dose: 1.1 mg/l

**Toxicity to algae:** EC<sub>50</sub> Species: *Scenedesmus subspicatus*  
Dose: 152.2 mg/l (refer to biomass)

#### NOTE

The product is considered to be a strong water pollutant (German law). Do not discharge product unmonitored into the environment. The ecotoxicological data refer to the undiluted 100 % product. The product does not cause essential disturbance of ecological processes and equilibriums, when used in the recommended concentrations and ways of application.

### 13. DISPOSAL CONSIDERATION

**Wasters from residues unused products:** On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals.

**Container disposal:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

**TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the

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contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dumpsite. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

Comply with local legislation applying to waste disposal.

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:** August 2011  
**Reviewed:** March 2019  
**Revision no.:** (2)  
**Next revision:** March 2024

For detailed information on revisions, contact the Registration holder.

## 14. TRANSPORT INFORMATION

**UN NUMBER:** 3082  
**Proper Shipping Name:** Environmentally Hazardous substance, liquid, N.O.S.

**Packaging group:** III  
**DG Class:** 9

It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilizers during transport.

## 15. REGULATORY INFORMATION

**UN NUMBER:** 3082  
**Hazard symbols:** N, Xi, Xn  
 Environmentally dangerous, irritating and harmful substance.

**Risk Phrases:**  
**R 20/21** Harmful by inhalation and avoid contact with skin.  
**R 38** Irritating to skin.  
**R 41** Risk of serious damage to eyes  
**R 51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:**  
**S 24:** Avoid contact with skin  
**S 25:** Avoid contact with eyes.  
**S 26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**S 36/3739:** Wear suitable protective clothing, gloves and eye/face protection.  
**S 51** Use only in well ventilated areas.  
**S 61** Avoid release to the environment.

## 16. OTHER INFORMATION

**Packaging:** Packed in 1, 5, 10, 20 and 25 litres plastic containers and labelled according to South African regulation and guidelines.

**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 use of the product. It is not applicable to