

## CHARGE

## SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** CHARGE  
**Other identifier:** Polyether-polymethyl-siloxane-copolymer  
**Recommended use:** Non-ionic Adjuvant  
**Restrictions on use:** Agriculture

**Supplier:** Villa Crop Protection (Pty) Ltd.  
**Co. Reg. No.:** 1992/002474/07  
 PO Box 10413  
 Aston Manor, 1630, 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:**  
 (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

### 2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Oral	Acute Tox. 5	H303
Dermal	Acute Tox. 5	H313
Eye irritation	Eye irrit. 2B	H320
Inhalation	Acute Tox. 4	H332
Aquatic Chronic	Aquatic Chronic 2	H411

**The most important adverse effects:**  
**Physiochemical effects:** None known.  
**Human health effects:**  
 Causes eye irritation (Eye irrit. 2B).  
 Harmful if inhaled (Acute Tox. 4).

#### Label elements:



**Signal word:** Warning.

**Hazard statements:**  
 H303: May be harmful if swallowed.  
 H313: May be harmful in contact with skin.  
 H320: Causes eye irritation.  
 H332: Harmful if inhaled.  
 H411: Toxic to aquatic life with long lasting effects.

**Precautionary statements:**  
 P261: Avoid breathing dust, fume, gas, mists, vapours or spray.  
 P264+P265: Wash hands and face thoroughly after handling. Do not touch eyes.  
 P271: Use only outdoors or in a well-ventilated area.  
 P273: Avoid release to the environment.  
 P301+P317: IF SWALLOWED: Get medical help.  
 P302+P317: IF ON SKIN: Get medical help.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P317: Get medical help.  
 P337+P317: If eye irritation persists: Get medical help.  
 P391: Collect spillage.  
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.

**Other hazards:**  
 None known.

**Toxicity:**  
 Classification according to GHS: Category 4.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture.

Chemical name	CAS	Conc (m/v %)	Classification EC 1272/2008
Polyether-polymethylsiloxane-copolymer	67674-67-3	100%	Eye Dam. 1 (H318) Acute Tox. 4 (H332) Aquatic Chronic 2 (H411)

### 4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further

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exposure. Consult a doctor if the affected person feels unwell.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

**Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation occurs.

**Eyes:** Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

**Ingestion:** Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. Seek medical attention if necessary.

**Anticipated acute effects:** Causes eye irritation. Harmful if inhaled.

**Anticipated delayed effects:** None known.

**Most important symptoms / effects:** None known.

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

**Unsuitable Extinguishing Media:** High volume water jet. Use a water jet only to cool heated containers.

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

**Special fire-fighting procedures:** Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal.

**Personal protective equipment:** Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with eyes and skin. Do not breathe in spray mist/fumes or vapour. Ventilate area of spill or leak, especially in contained areas.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Emergency procedures:** Alert firefighting personnel, evacuate unprotected personnel and animals.

**Environmental Precautions:** Prevent spilled product from entering sewers, waterways, or ground water. This product is classified as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water / Environmental Affairs.

**Methods and Materials for Containment:** Contain spilt product by diking area with sand or earth.

**Methods and Materials for Clean-up:** Cover contained spill with an inert absorbent material such as sand, vermiculite, earth, or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilt material back in original container. Do not re-use spilt material. Collect washings and add to the drums already collected. Do not flush spilt material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

### 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:** Harmful if inhaled. Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case

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of contact with the product refer to **First Aid Measures – Section 4.**

**General occupational hygiene:** Practice good hygiene when using this product. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

**Storage:**

**Conditions for safe storage:** Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed in an isolated, dry, cool and well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

**Incompatible substances and mixtures:** Refer to product label.

**Packaging material:** Plastic containers.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible concentration**

Permissible concentration: No occupational exposure limits have been determined for the significant ingredients in this product.

**Engineering Controls:**

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this product is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

**Personal Protective Equipment:**

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved, air-purifying respirator with cartridges / canisters approved for organic vapours.

**Hand Protection:** The use of chemically protective (impervious) gloves is recommended to prevent against skin contact.

**Eye Protection:** The use of chemical safety goggles is recommended to prevent against eye contact.

**Skin and Body Protection:** Employees must wear appropriate protective clothing (coveralls), (rubber) boots, hat and equipment to prevent repeated or prolonged skin contact with this product.

**Emergency eyewash:** Where there is any possibility that an employee's eyes may be exposed to this product, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Homogenous transparent liquid.

**Odour:** Slight characteristic odour.

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

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** 116°C.

**Flammability:** Not available.

**Upper / lower explosion limits:** Non-explosive under normal storage conditions.

**Vapour Pressure (mm Hg):** Not available.

**Relative Vapour Density:** Not available.

**Density / Relative density:** 1.02 ± 0.02 g/ml at 20°C.

**Solubility:** Soluble in water.

**n-octanol / water partition coefficient:** Not available.

**Auto-ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not available. 45-100 mPa.s 25°C.

### 10. STABILITY AND REACTIVITY

**Chemical stability:** The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

**Reactivity:** None known.

**Possibility of hazardous reactions:** Unlikely to occur.

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

**Incompatible materials:** None known.

**Hazardous decomposition products:** Carbon dioxide, carbon monoxide, silicon dioxide can be release as product of combustion.

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### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY: Experimental data

Oral LD<sub>50</sub> >2150 mg/kg (rat)  
 Dermal LD<sub>50</sub> >4640mg/kg (rat)  
 Inhalation LC<sub>50</sub> (4h) >2.02 mg/l (rat)  
**Skin Irritation / Corrosion:** Classified as non-irritating to rabbit skin.  
**Eye Damage / Irritation:** Classified as slightly to moderately irritating to eyes in rabbits.  
**Skin Sensitization:** Not classified.  
**Respiratory Sensitization:** Not classified.  
**Reproductive cell mutagenicity:** Not classified.  
**Carcinogenicity:** Not classified.  
**Reproductive toxicity:** Not classified.  
**Specific target organ toxicity – single exposure:** Not classified.  
**Specific target organ toxicity – repeated exposure:** Not classified.  
**Aspiration hazard:** Not classified.  
**Chronic Effects:** Not classified.  
**POTENTIAL ADVERSE EFFECTS:** None known.  
**Other information:** Not available.

### 12. ECOLOGICAL INFORMATION

This product is expected to be toxic to aquatic organisms.

#### ECOTOXICITY DATA:

##### Fish:

LC<sub>50</sub> Rainbow trout 2.1 mg/l

##### Daphnia:

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

##### Algae:

EC<sub>50</sub> *Scenedesmus subspicatus* 152.2 mg/l

#### ENVIRONMENTAL EFFECTS

**Based on information for the formulation / active ingredient(s):**

**Plants:** Not determined.

**Persistence and degradability:** 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.

**Bio-accumulative potential:** Not determined.

**Mobility in soil:** Not determined.

**Other adverse effects:** Not determined.

### 13. DISPOSAL CONSIDERATIONS

**Waste:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. 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 sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

**Container:** TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: 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

**UN Number:** 3082

**Road Transport ADR / ORD:**

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

**(Polyether-polymethylsiloxane-copolymer 1000 g/l)**

**Maritime Transport IMDG / IMO:**

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

**(Polyether-polymethylsiloxane-copolymer 1000 g/l)**

**Marine pollutant (Y/N): Y**

**Air Transport IATA / ICAO:**

Class: 9



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Packaging group: III  
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
**(Polyether-polymethylsiloxane-copolymer 1000 g/l)**  
**Special / Environmental Precautions:** Wedge drums tightly to avoid movement.  
**Transport in bulk:** Refer to MARPOL 73/78, Annex II and the IBC code.

given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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**Next revision:** June 2027

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### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations / legislation for the mixture:

OHSA 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

For detailed information on revisions, contact the Registration holder.

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### 16. OTHER INFORMATION

**Packaging:** Packed in 1, 5, 10, 20, 25, 50 litres plastic bottles or plastic drums/containers and labelled according to South African regulations and guidelines.

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

**H318:** Causes serious eye damage.

**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.

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

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

**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