

# Sharda International Africa (Pty) Ltd

(Co. Reg. No. 2010/002268/07)

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011,

Email: [rsa.regn@shardaintl.com](mailto:rsa.regn@shardaintl.com), Website: <http://www.shardaintl.com>

## SECTION 1. Chemical product and company identification

### Product identifier:

Identification as on the label/Trade name: **Sharda Carbosulfan 400 SC**

Additional information: Carbosulfan

### Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

Uses advised against: Use only as directed.

### Details of the supplier of the Safety Data Sheet:

Company name: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Phone number.: 031-764-3011

### Emergency telephone numbers:

UNITAS Hospital: 0800-111-9900

Tygerberg Hospital: 021-931-6129

Netcare 911: 082911

## SECTION 2. HAZARD IDENTIFICATION

### Classification of the substances or mixture

The mixture is classified according to

| SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP] |                                                           |
|-------------------------------------------------------|-----------------------------------------------------------|
| Hazard classes/Hazard categories                      | Hazard statement                                          |
| Acute toxicity oral                                   | H301 Toxic if swallowed                                   |
| Inhalation                                            | H33 Fatal if inhaled                                      |
| Skin irritation                                       | H317 May cause an allergic skin reaction                  |
| Hazardous to the Environment                          | H410 Very toxic to aquatic life with long lasting effects |

For full text of H statements see section 16

### The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: Toxic if swallowed. Fatal if inhaled. May cause an allergic skin reaction.

### Label elements



Hazard pictograms:

Signal Word: **Danger**

**Hazard Statements:** H301 Toxic if swallowed. H33 Fatal if inhaled. H317 May cause an allergic skin reaction  
H410 Very toxic to aquatic life with long lasting effects

**Precautionary Statements:** P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

P301+P316 IF SWALLOWED: Get emergency medical help immediately. P304+P340 IF INHALED: Remove person to

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fresh air and keep comfortable for breathing. P316 Get emergency medical help immediately. P333+P317 If skin irritation or rash occurs: Get medical help. P391 Collect spillage.

**Special labelling of certain mixtures:** None

**Other hazards:** None

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

**Ingredients:**

| Substance name (IUPAC/EC) | CAS –No.   | Concentration<br>% by weight | Classification                                                                                                                                                                          |
|---------------------------|------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           |            |                              | EC1272/2008                                                                                                                                                                             |
| Carbosulfan               | 55285-14-8 | 44.44%                       | Acute toxicity oral (Category 3) H301.<br>Skin sensitisation (Category 1) H317.<br>Acute toxicity inhalation (Category 2) H330.<br>Aquatic acute 1 H400.<br>Aquatic chronic 1 H410. M=1 |
| De-foamer R               |            | 0.50%                        | Not classified                                                                                                                                                                          |
| Noigen EA-100             | 9016-45-9  | 5.00%                        | Not classified                                                                                                                                                                          |
| Propylene glycol          | 57-55-6    | 5.00%                        | Not classified                                                                                                                                                                          |

*For full text of H statements see section 16*

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4. FIRST AID MEASURES

### Description of first aid measures:

In case of accident or unwellness, seek medical advice immediately (show direction for use or data sheet if possible).

First aider: Pay attention to self-protection.

### In case of inhalation:

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

### In case of skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

### In case of eye contact:

Immediately flush with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

### In case of ingestion:

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician

**Self-protection of the first aider:** use personal protective equipment as required

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**Most important symptoms and effects, both acute and delayed:** None

**Advice to physician:**

There is no specific antidote. Treat symptomatically and supportively as and when required.

**Indication of any immediate medical attention and special treatment needed:**

Immediate medical attention is required if exposure to the product. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## SECTION 5. FIRE -FIGHTING MEASURE

**Extinguisher media:**

**Suitable extinguisher media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SMALL FIRE:** See above.

**LARGE FIRE:** See above.

**Unsuitable extinguishing media:** High volume water jet. Use a water jet only to cool heated containers.

**Flash point:** > 100 °C

**Fire and Explosion Hazards:**

Keep containers adjacent to the fire cool with water spray as the containers may burn. The product is unlikely to be explosive.

**Hazardous product of combustion:**

In the event of fire, the formation of hydrogen chloride, carbon monoxide and nitrogen oxides must be anticipated.

**Advice for fire-fighters:**

Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6. ACCIDENTAL RELEASE

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

Wear a full body overall with boots, gloves, eye and respiratory protection.

Keep bystanders away and up-wind from the spillage

**For non-emergency personnel:** Keep all personal away. Avoid contact with eyes and skin.

**For emergency responders:** Wear appropriate personal protective equipment. Avoid contact and ventilate area of the spill or leakage.

**Protective equipment:**

Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill.

**Emergency procedures:** Contain the spillage by making a dyke/dam to stop liquid flow. Reposition any leaking containers to prevent further leaking.

**Environmental precautions:**

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Prevent entry into waterways, sewers, basement or confined areas. Do not flush into surface water or sanitary sewer systems. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains

## Methods and materials for containment and cleaning up:

### Material for containment and cleaning up:

Take up spilled product with absorbent material such as soil, sawdust or something similar. Place spilled material and contaminated cleaning materials in a closed container for disposal in an approved manner. Decontaminate the spill area with detergent and water. Rinse with the smallest volume of water.

## Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

**Additional information:** None.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

Good industrial practice in housekeeping and personal hygiene should be followed at all times when handling this product. Areas for handling and storage should be well ventilated.

Avoid contact with eyes. Do not eat, drink or smoke while handling this product. Wash hands and exposed skin thoroughly after handling or contact with this product. Do not contaminate drains, sewers and water bodies when disposing of equipment rinse water. Refer to Section 13 for disposal of rinse water. Observe all safeguards on the label as to cleaning and destruction of the container.

**Protective measures:** General occupational hygiene: when using do not eat, drink or smoke. Ash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended

### Conditions for safe storage, including incompatibilities:

Storage Temperature: Between 5 and 30 °C

**Weather, sunlight, humidity:** Store under lock and key in a well ventilated area where protected from rain and direct sunlight

**Incompatible Materials for Storage:** Store away from food, drink, seed, animal feed and fertiliser.

Keep out of reach of children, uninformed persons and animals.

Store only in the original labelled container.

**Minimum Shelf Life:** 2 years under normal storage conditions.

**Incompatible substances:** None known

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters:

**Occupational exposure limits (OEL):** None known

**Biological exposure indices (BEI):** None known.

**Additional exposure limits under the conditions of use:** None known.

### Exposure control:

#### *Appropriate engineering controls:*

Ensure adequate ventilation, especially in confined areas

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## **Hygiene measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Where there is 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

## **Respiratory protection:**

Use only with adequate ventilation

## **Hand protection:**

Suitable chemical resistance gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minimum Permeability time (permeation) according to EN 374) e.g., nitrile rubbers (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

## **Eye/face protection:**

tight sealing safety goggles when handling the product. Contact lenses are not protective eye devices.

## **Skin and body protection:**

Suitable protective clothing. Apron, gloves made of plastic or rubber

**Environmental exposure controls:** Do not allow into any sewers, on the ground or into any body of water

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                              |                                        |
|----------------------------------------------|----------------------------------------|
| <b>Appearance:</b>                           | Liquid, SC                             |
| <b>Colour:</b>                               | Pink                                   |
| <b>Odour:</b>                                | Characteristic                         |
| <b>pH</b>                                    | 6.1 (6-7)                              |
| <b>Melting point:</b>                        | No information available               |
| <b>Freezing Point:</b>                       | No information available               |
| <b>Boiling Point:</b>                        | 95 °C                                  |
| <b>Flash Point:</b>                          | 56 – 57 °C                             |
| <b>Flammability:</b>                         | Not flammable; water based formulation |
| <b>Upper/lower explosion limits:</b>         | No information available               |
| <b>Vapour Pressure (mm Hg):</b>              | No information available               |
| <b>Relative Vapour Density:</b>              | No information available               |
| <b>Density:</b>                              | 1045                                   |
| <b>Solubility:</b>                           | Complete                               |
| <b>N-octanol/water partition coefficient</b> | No information available               |
| <b>Auto-ignition temperature:</b>            | No information available               |
| <b>Decomposition temperature:</b>            | 95 °C                                  |
| <b>Viscosity:</b>                            | No information available               |
| <b>Explosive properties:</b>                 | Not explosive                          |
| <b>Oxidizing properties:</b>                 | No information available               |
| <b>Bulk density:</b>                         | No information available               |
| <b>Surface tension:</b>                      | No information available               |
| <b>Corrosivity</b>                           | Not corrosive                          |

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## SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Not available

### Chemical stability:

This product is stable under normal storage conditions when protected from rain, moisture and direct sunlight. Do not store near a heat source.

**Possibility of hazardous reactions:** None known

**Conditions to avoid:** Contact with acids, peroxides and acid halides.

**Incompatible materials:** This product is incompatible with strong alkaline media.

**Hazardous decomposition products:** In the event of fire, the formation of hydrogen chloride, carbon monoxide and nitrogen oxides must be anticipated.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

| Carbosulfan CAS 55285-14-8                            |                        |
|-------------------------------------------------------|------------------------|
| Acute toxicity                                        |                        |
| Acute Oral LD <sub>50</sub> (male rat)                | 250 mg/kg              |
| Acute Oral LD <sub>50</sub> (female rat)              | 185 mg/kg              |
| Acute Dermal LD <sub>50</sub> (rat):                  | >2000 mg/kg            |
| Acute Inhalation LC <sub>50</sub> - 4 h (male rat)    | 1.53 mg/ℓ air          |
| Acute Inhalation LC <sub>50</sub> - 4 h (female rat)  | 0.61 mg/ℓ air          |
| Skin irritation/ corrosion (rabbits)                  | Moderate skin irritant |
| Eye damage / irritation (rabbits)                     | Not an eye irritant    |
| Respiratory or skin sensitization                     |                        |
| Germ cell mutagenicity                                |                        |
| Carcinogenicity                                       |                        |
| Reproductive toxicity                                 |                        |
| Specific Target Organ Toxicity STOT single exposure   |                        |
| Specific Target Organ Toxicity STOT repeated exposure |                        |
| Aspiration hazard                                     |                        |

## SECTION 12. ECOLOGICAL INFORMATION

### Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

| Carbosulfan CAS 55285-14-8      |                                                                |
|---------------------------------|----------------------------------------------------------------|
| Birds:                          |                                                                |
| Acute oral LD <sub>50</sub>     | Mallard ducks 10 mg/kg<br>Quail 82 mg/kg<br>Pheasants 20 mg/kg |
| Fish LC <sub>50</sub> (96 h)    | Bluegill sunfish 0.015 mg/ℓ<br>Trout 0.042 mg/ℓ                |
| Daphnia EC <sub>50</sub> (48 h) | 1.5 µg/ℓ                                                       |
| Algae EC <sub>50</sub> (96 h)   | 20 mg/ℓ                                                        |
| Bees                            |                                                                |
| LD <sub>50</sub> (48 h) (Oral)  | Toxic to bees<br>1.046 µg/bee                                  |
| LD <sub>50</sub> (Contact)      | 0.28 µg/bee                                                    |
| Worms                           |                                                                |
| EC <sub>50</sub> for earthworms | Not toxic                                                      |

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|                       |  |
|-----------------------|--|
| Other beneficial spp. |  |
|-----------------------|--|

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods:

**General Information:** Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. 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.

**Disposal Methods:** Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company.

**Container:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

## SECTION 14. TRANSPORT INFORMATION

UN Number: 2992  
Un proper shipping name Carbosulfan, Liquid, Toxic  
UN Classification transport hazard class(es): 6  
Packing group (if applicable) III  
Marine pollutant (Y/N)  
Transport in bulk according to MARPOL 73/78, Annex II and the IBC Code: Not available

## SECTION 15. REGULATORY INFORMATION

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

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

### Relevant information regarding restrictions:

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

**Other National regulations:** National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

**Chemical Safety Assessment carried out?** No

## SECTION 16. OTHER INFORMATION

### Indication of changes:

GHS aligned

### Relevant classification and H statements (number and full text):

H301 Toxic if swallowed.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

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## **Training instructions:**

Use as indicated on the label, special training may be required for application.

## **Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

## **Notice to readers:**

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.