SAFETY DATA SHEET

Issue No: 1.0	First print date: 5 August 2026

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **TOPPHITE 605 SL**

Other means of identification:

Recommended Use: Agricultural fungicide

Supplier: ICA International Chemicals (Pty) Ltd

Address: 28 Planken Street
Plankenbrug Industrial
STELLENBOSCH · 7600 · SOUTH AFRICA

Telephone No: +27-21 886 9812

Fax No: +27-21 886 8209

Emergency Tel No: Griffon Poison Information Centre: +27-82 446 8946
Human Poison Helpline: +27-861 555 777

2. HAZARD IDENTIFICATION

GHS Classification of product: Eye irritation – Category 2

Label Elements
Classification and Labelling of Chemicals (GHS) Rev 11, 2025; Regulation EC No. 1272/2008 [EU-GHS/CLP]



Signal word: **WARNING**

Hazard Statements: H319 – Causes serious eye irritation

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.
P280: Wear protective gloves/protective clothing/eye and face protection.
P264 + P265: Wash hands and face thoroughly after handling. Do not touch eyes.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P317: If eye irritation persists: Get medical help.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS NO:	CONCENTRATION % (w/v)	CLASSIFICATION EC 1272/2008
Monopotassium phosphite	13977-65-6	50 - 60	Eye irrit. 2, H319
Dipotassium phosphite	13492-26-7	5 - 10	Eye irrit. 2, H319

There are no additional ingredients present which, within the current knowledge of the provider of this SDS, and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. See section 16 for legend of additional H-phrases not in section 2.

4. FIRST AID MEASURES

Show this SAFETY DATA SHEET to a doctor.

INHALATION:

- Remove the victim from immediate source of exposure. Move victim to fresh air, if it can be done safely, and keep comfortable.
- If victim's breathing has stopped, perform artificial respiration.
- DO NOT perform mouth-to-mouth resuscitation if victim ingested or inhaled the substance; wash face and mouth before giving artificial respiration. Use a pocket mask equipped with a one-way valve or other proper respiratory medical device.

	· Administer oxygen if victim's breathing is difficult or irregular. · Get medical help.
SKIN:	· Remove and isolate contaminated clothing, shoes, and leather goods immediately and take a shower. · Rinse affected areas (skin) immediately with non-abrasive soap or mild detergent and large amounts of running water. Wash contaminated clothing before reuse. · Get medical help if irritation develops and persists. · In case of burns, IMMEDIATELY cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
EYES:	· Rinse eyes IMMEDIATELY with clean running water for at least 15 minutes, while holding eyelids apart. · Remove contact lenses after 5 minutes if present and easy to do. · Continue rinsing while holding eyelids apart. · Seek medical help if irritation continues.
INGESTION:	· If swallowed, DO NOT induce vomiting, unless instructed to do so by poison control center or doctor. · Have person sip a glass of water if able to swallow · Never give anything by mouth to an unconscious person. · If vomiting does occur, keep on giving fluids. Get medical help.
NOTE TO PHYSICIAN:	· There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.
POTENTIAL HEALTH AFFECTS, ACUTE AND DELAYED	Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	**Small fires:** Dry chemical powder, carbon dioxide (CO_2), water spray or alcohol-resistant foam. **Large fires:** Water spray, fog, or alcohol-resistant foam.
FIRE INVOLVING TANKS:	Cool containers with flooding quantities of water until well after fire is out. DO NOT get water inside containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.
UNSUITABLE EXTINGUISHING MEDIA:	DO NOT use high volume water jet, due to contamination risk.
SPECIFIC EXTINGUISHING METHODS:	Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Collect contaminated extinguishing water separately; do not allow contaminated water to reach the sewage or effluent systems.
SPECIFIC HAZARDS ARISING FROM COMBUSTION PRODUCTS:	In case of fire, the formation of Carbon monoxide (CO), Nitrogen oxides (NO_x), Hydrogen chloride ($HC\ell$), Hydrogen fluoride (HF), Hydrogen cyanide (HCN), Formaldehyde (CH_2O), Oxygen (O_2), or Phosgene ($COC\ell_2$) can be expected.
PRECAUTIONS FOR FIRE FIGHTERS:	Fire fighters should wear full protective gear including self-contained breathing apparatus (SCBA). Fight fire from safe distance. Contact with the fumes and vapours should be avoided by staying upwind. Clean all clothing before reuse. Severely contaminated clothing cannot be adequately decontaminated and must be disposed as a hazardous waste. Shower with soap and water after contact with chemical product.
FURTHER INFORMATION:	· If possible, safely move undamaged intact containers away from the area around the fire. · Keep containers cool by spraying with water if exposed to fire. · Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. · In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK:

PERSONAL PRECAUTIONS:	Avoid contact with skin and eyes. Do not touch or walk through spilled material.

PROTECTIVE EQUIPMENT:	Emergency eye wash capability should be available in the vicinity of any potential splash exposure.
EMERGENCY PROCEDURES:	Keep people and animals away.
ENVIRONMENTAL PRECAUTIONS:	PREVENT spilled material from entering waterway and sewer systems, basements, and confined areas. If the product contaminates rivers and lakes or waterways immediately inform respective authorities.
METHODS AND MATERIALS FOR CONTAINMENT:	Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in clearly marked waste containers.
METHODS AND MATERIALS FOR CLEANING UP:	Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean, non-sparking tools to collect absorbed material.
SECONDARY DISASTER PREVENTION MEASURES:	NA

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: - Suitable Technical Measures - Suitable Precautions - Prevention of contact	· Always store fungicides in their original containers, which include the label listing ingredients, directions for use, and first aid steps in case of accidental poisoning. · Never transfer fungicides to soft drink bottles or other containers. Children or others may mistake them for something to eat or drink. · Wear suitable protective clothing which include chemical-resistant overalls, footwear, socks, dust mask, eye shields and gloves. · Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Wash hands, arms, and face after application. Wash gloves and contaminated protective clothing daily before reuse.
CONDITIONS FOR SAFE STORAGE: - Suitable Technical Measures - Separation measures from incompatible substances and mixtures	· Keep out of reach of unauthorized persons, children, and animals. Always store fungicides in their original containers, closed with original cap and the original label, in a cool, dry, and well-ventilated area out of direct sunlight. · Segregate from foods and animal feeds. · DO NOT reuse the container for any other purpose.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ADI – Acceptable Daily Intake	3.9 mg kg^{-1} bw day^{-1}
AOEL – Accepted Operator Exposure Level	Not available
NATIONAL EXPOSURE STANDARDS:	Not available
BIOLOGICAL LIMIT VALUES:	Not available
ENGENEERING CONTROLS:	Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. If airborne mist/vapours are generated use local exhaust ventilation controls. Facilities should be equipped with an eyewash station and a safety shower. Where necessary, seek additional occupational hygiene advice.
PERSONAL PROTECTIVE EQUIPMENT:	**Respiratory Protection:** Where exposure through inhalation may occur when handling and/or when preparing the spray mixture, wear a face mask. If the product is used in confined spaces a respirator suitable for protection from spray and mists of pesticides is adequate. **Hand Protection:** Wear chemical-resistant gloves made of any waterproof material such as nitrile rubber. Glove thickness: 0.5 mm **Eye Protection:** The use of safety goggles (full-face shield) is recommended. **Skin and Body Protection:** Wear suitable protective clothing which include chemical-resistant overalls, footwear, socks, dust mask, eye shields and gloves. Remove and wash contaminated protective clothing daily.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid (Clear)
COLOUR:	Colourless
ODOUR:	Characteristic, slight chemical odour
MELTING POINT / FREEZING POINT °C:	Not applicable
BOILING POINT:	Decomposes before boiling
DECOMPOSITION TEMPERATURE (a.i):	Not available
FLAMMABILITY:	Nonflammable
EXPLOSIVE LIMITS:	No explosive properties
FLASH POINT:	Not applicable
AUTO-IGNITION TEMPERATURE:	Not applicable
pH (1% IN WATER):	5 - 6
KINEMATIC VISCOSITY: $\text{Kinematic viscosity} = \frac{\text{Dynamic viscosity (mPa/s)}}{\text{Density (g/cm}^3\text{)}}$	Not applicable
VISCOSITY:	Not applicable
DENSITY / RELATIVE DENSITY:	1.34 g/mℓ
SOLUBILITY - WATER (a.i):	Completely soluble in water.
N-OCTANOL / WATER PARTITION COEFFICIENT (a.i):	Not applicable
VAPOUR PRESSURE (a.i):	Not applicable
RELATIVE VAPOUR DENSITY:	Not applicable

10. STABILITY AND REACTIVITY

REACTIVITY:	Stable under normal conditions no reaction with fire-fighting water.
CHEMICAL STABILITY:	Stable under normal use and storage conditions for at least 2 years.
HAZARDOUS REACTION:	Hazardous polymerization is not expected to occur.
CONDITIONS TO AVOID: **(e.g. – heat, pressure, static discharge, shock, or vibration)**	Avoid storage in moist or hot conditions, near to heat or ignition sources. Keep away from food, drink and open bodies of water.
INCOMPATIBLE MATERIALS:	None specified
HAZARDOUS DECOMPOSITION PRODUCTS:	When heated to decomposition, irritant or dangerous fumes/vapours may be emitted. See section 5.

11. TOXICOLOGICAL INFORMATION

	ANIMAL ACUTE TOXICITY DATA (ATE)	
ORAL:	LD_{50} (rat) = > 5000 mg a.i. /kg bw	Not Classified
DERMAL:	LD_{50} (rat) = 4000 mg a.i. /kg bw	Not Classified
INHALATION:	LC_{50} (4h) rat = > 5,05 mg a.i./ℓ	Not Classified
SKIN IRRITATION / CORROSION:		Not Classified
SERIOUS EYE IRRITATION / DAMAGE:	Eye irritation ≥ 10%	**Category 2**
RESPIRATORY OR SKIN SENSITIZATION:		Not Classified
GERM 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

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

(POTASSIUM PHOSPHITE)	Birds: LD_{50} (oral)	*Colinus virginianus* (Bobwhite quail) Acute LD_{50} > 2250 mg a.i./kg bw/day LC_{50}/LD_{50} > 5620 mg a.i. /kg diet Chronic NOEL = 149.04 mg a.i. /kg bw/day
	Fish: LC_{50}	-
	Aquatic invertebrates	*Daphnia magna* (Water flea) Acute (48h) EC_{50} = > 118 mg a.i./ℓ
	Aquatic crustaceans	-
	Algae - EC_{50} / NOEC	*Scenedesmus subspicatus* Chronic (96h) NOEC = 146.7 mg a.i./ℓ
	Bees	*Apis mellifera* Acute contact 48-hour LD_{50} = > 145 (µg bee-1)
	Earthworms: LC_{50} /NOEC	*Eisenia fetida* Acute (14-day) LC_{50} = > 1 000 mg a.i./kg d.w. soil
AQUATIC TOXICITY:	**Not Classified**	
PERSISTENCE, DEGRADABILITY AND MOBILITY:	Persistent in the soil and slightly mobile / non-mobile DT_{50} = 142 days K_{oc} = 453.6 mℓ/g	
BIO-ACCUMULATIVE POTENTIAL:	BCF = 20 ℓ/kg	
SOIL MICRO-ORGANISMS:	Carbon transformation	No significant adverse/long-term effect
	Nitrogen transformation	No significant adverse/long-term effect

13. DISPOSAL CONSIDERATIONS

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.

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 a drip. 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). 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:	Not Regulated
UN PROPER SHIPPING NAME:	Not Regulated
TRANSPORT HAZARD CLASS(ES):	Not Regulated
PACKING GROUP:	Not Regulated
TRANSPORT PICTOGRAMS:	Not Regulated
ENVIROMENTAL HAZARD:	Marine Pollutant: No
TRANSPORT IN BULK:	Not applicable, not to be transported in bulk.
SPECIAL PRECAUTIONS FOR USER:	Not applicable

15. REGULATORY INFORMATION

Conform to South African Regulation for Hazardous Chemical Agents, 2021.

Product: South African registration number L12039, Act 36 of 1947

SDS valid for five years from date of issue.

16. OTHER INFORMATION

Key literature references and sources of data: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 11, 2025. UN Model Regulations Rev. 22 (2023). EU REGULATION (EC) No. 1272/2008.

This Safety Data Sheet (SDS) summarises our best knowledge of the health and safety hazard information of the product and

how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how to prevent accidents in the normal workplace including in conjunction with other products.

The information was obtained from sources which we believe are reliable. However, the information is provided in good faith. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and for these reasons we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used for this product only.

First Edition Date: 5 August 2026

Issue: 1.0

END of SDS