

# SAFETY DATA SHEET

Issue No: 1.1	Revision date: 20 May 2022 First print date: 2 April 2022
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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	<b>D-FENCE 700 WG</b>
Recommended Use:	Agricultural fungicide
Supplier:	ICA International Chemicals (Pty) Ltd
Address:	28 Planken Street Plankenbrug Industrial STELLENBOSCH · 7600 · SOUTH AFRICA
Telephone No:	+27 (0) 21 886 9812
Fax No:	+27 (0) 21 886 8209
Emergency Tel No:	Griffon Poison Information Centre: +27 (0) 82 446 8946 Poisons Helpline 0861 555 777

## 2. HAZARD IDENTIFICATION

GHS Classification of product	Acute Toxicity Oral – Category 4 Eye Irritation – Category 1 Skin Irritation – Category 2 Acute Aquatic Toxicity – Category 1 Chronic Aquatic Toxicity – Category 1
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GHS Label elements



Signal word

**DANGER**

Hazard Statements

H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H410: Very toxic to aquatic life with long lasting effects.

General 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.

Prevention Precautionary Statements

P101: If medical advice is needed: Have product container or label at hand.  
P102: Keep out of reach of children.  
P103: Read label before use.  
P260: Do not breath dust/mist/spray.  
P264+265: Wash thoroughly after handling. Do not touch eyes.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P284: Wear respiratory protection.

Response Precautionary Statements

P301 + P317: IF SWALLOWED: Get medical help.  
P301 + P330: IF SWALLOWED: Rinse mouth.  
P302 + P361 + P354: IF ON SKIN: Take off immediately all contaminated

clothing. Immediately rinse with water for several minutes.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P317: If skin irritation occurs: Get medical help.

P337 + P317: If eye irritation persists: Get medical help.

P340: Remove person to fresh air and keep comfortable for breathing.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents and container in accordance with national regulations.

Storage Precautionary Statements

Disposal Precautionary Statements

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS NO:	CONCENTRATION % (w/w)	CLASSIFICATION EC1272/2008
Dithianon	3347-22-6	70	Acute tox 4 (LD50 638), Oral, H302.
Sodium dodecylbenzenesulfonate	25155-30-0	<10	Aquatic Acute 1, Aquatic Chronic 1 H410
Condensed methyl naphthalene sulfonate	68425-94-5	<10	Skin Irrit. 2 H315, Eye Irrit. 2 H319
Sodium lignosulfonate	8061-51-6	<10	Eye Irrit. 2 H319
Sodium dodecyl sulfate	151-21-3	<10	Acute tox Oral 4, H302 Skin Irrit 2 H315, Eye damage 1 H318
Ammonium sulfate	7783-20-2	10-20	Acute Tox oral 4 H302, Skin Irrit 2 H315, Eye irrit 2 H319, STOT SE 3 H335
Other non-hazardous components		To 100	Not Classified

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 re-use.
- 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.

**INGESTION:**

- Continue rinsing while holding eyelids apart.
- Seek medical help if irritation continues.
- 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.
- There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.

**NOTE TO PHYSICIAN:**

**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<sub>2</sub>), water spray or alcohol-resistant foam

**FIRE INVOLVING TANKS:**

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

Cool containers with flooding quantities of water until well after fire is out. DO NOT get water inside containers. 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<sub>x</sub>), 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 re-use. 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. Do not inhale spray or fumes.

**PROTECTIVE EQUIPMENT:**

Wear personal protective clothing and equipment (see section 8).

**EMERGENCY PROCEDURES:**

Keep people and animals away. Eliminate all ignition sources (no smoking, flares, sparks, or flames) from immediate area. All equipment used when handling the product must be grounded.

Use water spray to reduce vapours or divert vapour cloud drift.

**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 spills, 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 and place in container for disposal according to local / national regulations (see section 13).

**SECONDARY DISASTER PREVENTION MEASURES:**

NA

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

- Always store pesticides in their original containers, which include the label listing ingredients, directions for use, and first aid steps in case of accidental poisoning.
- Never transfer pesticides 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 re-use.

### CONDITIONS FOR SAFE STORAGE:

- Keep out of reach of unauthorized persons, children, and animals. Always store pesticides in their original containers, which include the label listing ingredients, in a cool, dry, and well-ventilated area out of direct sunlight.
- Segregate from foods and animal feeds.
- DO NOT re-use the container for any other purpose.

### PACKAGING MATERIAL

Foil covered plastic bags

### FIRE PRECAUTIONS:

Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic charge-sources of ignition should be kept well clear- fire extinguishers should be kept handy.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### ADI – Acceptable Daily Intake

0,01 mg kg<sup>-1</sup> bw day<sup>-1</sup>

### AOEL – Accepted Operator Exposure Level

0,0135 mg kg<sup>-1</sup> bw day<sup>-1</sup>

### NATIONAL EXPOSURE STANDARDS:

Not information available

### BIOLOGICAL LIMIT VALUES:

Not information available

### ENGINEERING CONTROLS:

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. If airborne dust 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 dusts of pesticides is adequate.

**Hand Protection:** Wear chemical-resistant gloves.

**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:

Solid, granules

### COLOUR:

Cream to brown

### ODOUR:

Strong Chemical Odour

### MELTING POINT / FREEZING POINT °C:

215 °C

### BOILING POINT:

Not available

### FLAMMABILITY:

Not available

### EXPLOSIVE LIMITS:

Not available

### FLASH POINT:

Not available

### AUTO-IGNITION TEMPERATURE:

Not available

### DECOMPOSITION TEMPERATURE of a.i:

222 °C

### PH (1% IN WATER)

pH 7: 0,14 mg/ℓ at 20 °C.

### KINEMATIC VISCOSITY:

Not applicable

### SOLUBILITY - WATER (ACTIVE INGREDIENT):

0.22 mg/L

N-OCTANOL / WATER PARTITION COEFFICIENT:	P = 1.58 X 10 <sup>03</sup>
VAPOUR PRESSURE:	1.0 X 10 <sup>-07</sup>
DENSITY / RELATIVE DENSITY:	Not applicable
RELATIVE VAPOUR DENSITY	Not applicable
PARTICLE CHARACTERISTICS	Homogeneous granulated

## 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 <sub>50</sub> (rat)	696 mg a.i. /kg bw
DERMAL:	LD <sub>50</sub> (rat)	Not classified
INHALATION:	LC <sub>50</sub> (4h) rat	Not classified
SKIN IRRITATION / CORROSION:		Category 2
SERIOUS EYE IRRITATION / DAMAGE:		Category 1
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:		
(ACTIVE INGREDIENT)		
Birds: LD <sub>50</sub> (oral)		<i>Colinus virginianus</i> (Bobwhite quail)
		Acute LD <sub>50</sub> 309 mg/kg bw/day LC <sub>50</sub> /LD <sub>50</sub> >1198.5 mg/kg diet
Fish: LC <sub>50</sub>		Chronic NOEL = 22.8 mg/kg bw/day
		<i>Oncorhynchus mykiss</i> (Rainbow trout)
		Acute (96h) LC <sub>50</sub> = 0.07 mg a.i./ℓ NOEC = 0.02 mg a.i./ℓ (21-day)
Aquatic invertebrates - <i>Daphnia</i>		<i>Daphnia magna</i> (Water flea)
		Acute (48h) EC <sub>50</sub> = 0.26 mg a.i./ℓ
		Chronic (21-day) NOEC = 0.05 mg a.i./ℓ
Algae - EC <sub>50</sub> / NOEC		<i>Pseudokirchneriella subcapitata</i>
		Acute (72h) EC <sub>50</sub> = 0.09 mg a.i./ℓ
		Chronic (96h) NOEC = 0.025 mg a.i./ℓ
Bees		<i>Apis mellifera</i>
		Acute contact 48-hour LD <sub>50</sub> = >100 (µg bee-1)
		Acute oral 48-hour LD <sub>50</sub> = >25.4 (µg bee-1)
Earthworms: LC <sub>50</sub> /NOEC		<i>Eisenia fetida</i>
		Acute (14-day) LC <sub>50</sub> = 578 mg a.i./kg d.w. soil
		Chronic NOEC = 22.3 mg a.i./kg d.w.

<b>PERSISTENCE, DEGRADABILITY AND MOBILITY:</b>	Soil DT50 typical = 0.6 days Mobility in soil: Slightly mobile	
<b>BIO-ACCUMULATIVE POTENTIAL:</b>	Low potential	
<b>SOIL MICRO-ORGANISMS:</b>	Carbon transformation Nitrogen transformation	No significant adverse/long-term effect No significant adverse/long-term effect

### 13. DISPOSAL CONSIDERATIONS

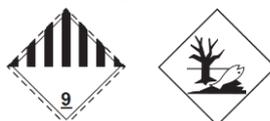
On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities.

**TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Containers with water-soluble sachets must be completely emptied before being disposed of. Invert and shake thoroughly into the applicator to ensure the container is empty. Triple rinse the empty container with clean water equal to a minimum of 30% of the volume of the container. Add rinsing to the contents of the spray tank. Offer container for recycling or puncture and dispose of at authorised landfill ([www.croplife.co.za](http://www.croplife.co.za)). Do not use container for any other purpose.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAILWAY TRANSPORT ADR/RID:

<b>UN NUMBER:</b>	3077
<b>UN PROPER SHIPPING NAME:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID (70 % dithianon)
<b>TRANSPORT HAZARD CLASS(ES):</b>	Class 9
<b>PACKAGING GROUP:</b>	III (low danger)
<b>LABELS:</b>	



<b>ENVIRONMENTAL HAZARDS:</b>	Severe marine pollutant
<b>SPECIAL PRECAUTIONS FOR USER:</b>	Not applicable
<b>TRANSPORT IN BULK:</b>	Not applicable, not to be transported in bulk.

### 15. REGULATORY INFORMATION

Conforms to South Africa Regulation for Hazardous Chemical Agents, 2021.  
Product South African registration number L11156 (Act 36/1947)  
SDS valid for five years from date of issue.

### 16. OTHER INFORMATION

**Legend:** Full text of H-Statements referred to under sections 3:

H319 – Cause serious eye irritation

H335 – May cause respiratory irritation

**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 9, 2021. UN Model Regulations Rev. 22 (2021). 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.

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END of SDS