

Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Teacher 230 SC**

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 82 446 8946
Poisons Helpline 0861 555 777

2. HAZARD IDENTIFICATION

GHS classification of product Acute Oral Toxicity Category 5
Acute Dermal Toxicity Category 5
Inhalation Toxicity Category 4
Acute Aquatic Toxicity Category 1
Chronic Aquatic Toxicity Category 1

GHS Label elements



Signal Word

Warning

Hazard Statements

H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H332: Harmful if inhaled.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

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 carefully and follow all instructions.
P261: Avoid breathing mists/vapours/spray.
P264: Wash hands thoroughly after handling.
P273: Avoid release to the environment.
P301 + P317 IF SWALLOWED: Get medical help.
P302 + P317 IF ON SKIN: Get medical help.
P304 + P317 IF INHALED: Get medical help.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P391: Collect spillage.
P501: Dispose of container and contents in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(s)	CAS NO	Concentration (g/ℓ)
Fludioxonil	131341-86-1	230
Inerts	Non hazardous	

4. FIRST AID MEASURES

Show this MATERIAL SAFETY DATA SHEET to a doctor

- INGESTION:**
- Not considered as harmful with normal exposure, but if swallowed, DO NOT induce vomiting. Have person sip a glass of water if able to swallow.
 - If vomiting does occur, keep on giving fluids. Get medical advice.
- INHALATION:**
- Treat symptomatically. Remove patient from source of exposure. And move to fresh air..
 - Give artificial respiration if victim is not breathing.
 - Administer oxygen if breathing is difficult.
- EYES:**
- Treat symptomatically. Remove any contact lenses. Rinse eyes immediately with plenty of clean water for at least 15 minutes. Hold eyelids apart while flushing.
 - Seek medical help if irritation continues.
- SKIN:**
- Treat symptomatically. Remove contaminated clothing and take a shower.
 - Rinse affected areas (skin) immediately with plenty of water.
- MEDICAL ATTENTION:**
- Treat symptomatically.
- POTENTIAL HEALTH AFFECTS:**
- No significant adverse effects expected.

5. FIRE FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:**
- As this product is not combustible, use extinguishing agent for the surrounding fire.
- HAZARDS PRODUCTS FROM COMBUSTION:**
- In a fire, formation of oxides of carbon and nitrogen can be expected.
- PRECAUTIONS FOR FIRE FIGHTERS:**
- Fire fighters should wear full protective gear including self-contained breathing apparatus. If possible, safely remove intact containers from the fire.
- HAZCHEM CODE:**
- No code has been assigned.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK:

- Avoid contact with spilled material or contaminated surfaces.
- DO NOT eat, drink, or smoke.
- Wear personal protective clothing and equipment (see section 8). Keep people and animals away.
- PREVENT spilled material from entering drains or sewer systems. Dike and bund area with sand or earth to prevent contamination of drains or sewers.

7. HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING:**
- Wear suitable protective clothing (Dust mask, Eye shields, Gloves)
 - Wash hands, arms, and face after use.
 - Wash gloves and contaminated protective clothing daily.
 - DO NOT re-use the container for any other purpose.
- CONDITIONS FOR SAFE STORAGE:**
- Store out of reach of children, tightly closed in original containers, which include the complete label, in a cool, dry, and well-ventilated area out of direct sunlight.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- AOEL:** AOEL Acceptable Operator Exposure Level EU - 0.59 mg kg⁻¹ bw day⁻¹
- ADI:** Acceptable Daily Intake EU – 0.37 mg kg⁻¹ bw day⁻¹
- ENGINEERING CONTROLS:** Facilities should be equipped with an eyewash facility and a safety shower. It is important to provide adequate ventilation (local exhaust ventilation system). Comply with occupational safety, environmental, fire and other applicable regulations.
- PERSONAL PROTECTIVE EQUIPMENT:** Wear suitable protective clothing which include chemical-resistant footwear, gloves and NIOSH/MSHA self-containing breathing apparatus. Where exposure through inhalation may occur when handling and/or when preparing the spray mixture, wear a face mask. The use of eye shields and gloves (chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene and/or barrier laminate) is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (colour; physical form):	White liquid
ODOUR:	Sweet chemical odour (Almond)
PH:	6.0 – 8.0
DENSITY:	~1.09 g/mℓ
VISCOSITY	1035 mPa/s
PERSISTENT FOAMING:	30 mℓ
SPONTANEITY OF DISPERSION:	94 %
SUSPENSIBILITY (100 mℓ/100 ℓ water):	98 %
SUSPENSIBILITY (260 mℓ/100 ℓ water):	98 %
POURABILITY:	1.5 %
LOW TEMPERATURE STABILITY:	Visible stable
FLASH POINT:	Not a combustible product

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Excessive heat, freezing.

11. TOXICOLOGICAL INFORMATION

ANIMAL ACUTE TOXICITY DATA

ORAL:	LD ₅₀ (rat)	> 5 000 mg/kg
DERMAL:	LD ₅₀ (rat)	> 2 000 mg/kg
INHALATION:	LC ₅₀ (rat)	> 2 mg/ℓ (4h)
DERMAL IRRITATION:	(OECD 404)	Not irritating to the skin (rabbits)
EYE IRRITATION:	(OECD 405)	Not irritating to the eyes (rabbit)
SENSITISATION:	Guinea pig	Not positive as a skin sensitizer

Not mutagenic, unlikely to be genotoxic. Teacher 230 SC is unlikely to pose a carcinogenic risk to humans

12. ECOLOGICAL INFORMATION (a.i.)

ECOTOXICITY:	Birds : LD ₅₀ (oral)	Mallard ducks > 2000 mg/kg; Fludioxonil (a.i.) Bobwhite quail > 2000 mg/kg. Fludioxonil (a.i.)
	Fish : LC ₅₀ (96h)	Rainbow trout 0.23 mg/ℓ Fludioxonil (a.i.) Bluegill Sunfish 0.74 mg/ℓ Fludioxonil (a.i.)
	Daphnia : LC ₅₀ (48h)	0.4 mg/ℓ Fludioxonil (a.i.)
	Daphnia : LC ₅₀ (21-day)	0.005 mg/ℓ Fludioxonil (a.i.)
	Algae (EC ₅₀)	<i>Scenedesmus subspicatus</i> 0.024 mg/ℓ
	Bees : LD ₅₀ (oral and contact)	> 100 ug/ bee Fludioxonil (a.i.)
	Earthworms : LC ₅₀ (14d)	> 1000 mg/kg Fludioxonil (a.i.) dry soil

PERSISTENCE, DEGRADABILITY and MOBILITY: Fludioxonil (soil) has a low potential for leaching (non-mobile) DT₅₀ soil 20.5 – 239 days, Non-persistent to persistent in soil. Aqua photolysis moderately fast breakdown of DT₅₀ . 10 days


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. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds until the flow has slowed down to a drip. Thereafter, rinse the empty container three times in succession with one quarter of the container volume with clean 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.

DO NOT burn empty containers or product.

DIP Disposal: According to local legislative requirements.

14. TRANSPORT INFORMATION

UN NUMBER:	3082
PROPER SHIPPING NAME:	Environmentally hazardous substance, Liquid, N.O.S. (Fludioxonil 230 g/l)
UN CLASSIFICATION	Class 9
PACKING GROUP:	III (minor danger)
MARINE POLLUTANT	Yes 
Tel No:	+27 (0) 21 886 9812

15. REGULATORY INFORMATION

South African Registration number L9919, Act No. 36 of 1947
SDS Valid for three years from date of issue

16. OTHER INFORMATION

This Material Safety Data Sheet (MSDS) 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 MSDS 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 this reason 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 MSDS was prepared and is to be used for this product only.

END of MSDS