

Safety Data Sheet

Issue No: 3.3

Issue date: 22 July 2021

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Protector 400 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 (0) 82 446 8946
Poisons Helpline 0861 555 777

2. HAZARD IDENTIFICATION

GHS classification of product

Acute Toxicity Oral – Category 5
Acute Toxicity Dermal – Category 5
Acute Inhalation – Category 4
Eye Irritation – Category 2B
Skin Irritation – Category 3
Acute Aquatic Toxicity – Category 2
Chronic Aquatic Toxicity – Category 2

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
H320 Cause eye irritation
H316 Cause mild skin irritation
H317 May cause an allergic skin reaction
H401 Toxic to aquatic life
H411 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 carefully and follow all instructions.
P260: Do not breathe dust/mist/spray.
P264 Wash hand thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing, eye, and face protection.
P301 + P317: IF SWALLOWED: Get medical help.
P302 + P352: IF ON SKIN: Wash with plenty of water.
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.
P337 + P317: If eye irritation persists: Get medical help.
P332 + P317: If skin irritation or rash occurs: Get medical help.
P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(s)	CAS NO:	Classification	Concentration (g/l)
Pyrimethanil	53112-28-0		400
Co-Formulants Confidential		Non hazardous	600

4. FIRST AID MEASURES

Show this SAFETY DATA SHEET to a doctor.

- INHALATION:**
- Remove the patient from immediate source of exposure.
 - Move victim to fresh air.
 - Give artificial respiration if victim is not breathing.
 - Administer oxygen if breathing is difficult.
- SKIN:**
- Remove contaminated clothing immediately.
 - Rinse affected areas (skin) immediately with plenty water.
 - Check and remove any contact lenses.
- EYES:**
- Rinse eyes immediately with plenty of clean water for at least 15 minutes. Hold eyelids apart while flushing.
 - Seek medical help if irritation continues.
- INGESTION:**
- 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.
- NOTE TO PHYSICIAN:**
- Treat symptomatically.
 - No significant adverse effects were reported. Practically non-toxic.
- POTENTIAL HEALTH AFFECTS, ACUTE AND DELAYED**
- Slight irritation is possible for eyes.
 - Not a skin sensitizer, may cause an allergic skin reaction.
 - There is no antidote for poisoning with pyrimethanil.

5. FIRE FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:**
- As this product is not combustible, use extinguishing agent for the surrounding fire.
- UNSUITABLE EXTINGUISHING MEDIA:**
- N/A
- HAZARDS FROM COMBUSTION PRODUCTS:**
- In case of fire, the formation of carbon and nitrogen oxides can be expected.
- PRECAUTIONS FOR FIRE FIGHTERS:**
- Fire fighters should wear full protective gear including self-contained breathing apparatus.
- HAZCHEM CODE:**
- No code has been assigned
- Further information:**
- If possible, safely remove intact containers from the fire.
 - Keep containers cool by spraying with water if exposed to fire.
 - If conditions permit, let fire burn itself out, as water used in extinguishing may contaminate the area.
 - Collect contaminated extinguishing water separately; do not allow contaminated water to reach the sewage or effluent systems.
 - 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:

- 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/earth to prevent contamination of drains or sewers.

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.
 - Keep out of reach of children.
 - Wear suitable protective clothing (Dust mask, Eye shields, Gloves)
 - Wash hands, arms, and face after use. Wash gloves and contaminated protective clothing daily.

- 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.
 - Segregate from foods and animal feeds.
 - DO NOT re-use the container for any other purpose.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ADI	Acceptable Daily Intake EU – 0.17 mg kg ⁻¹ bw day ⁻¹
AOEL:	Acceptable Operator Exposure Level EU – 0.12 mgkg ⁻¹ bw day ⁻¹
NATIONAL EXPOSURE STANDARDS:	No exposure standards have been assigned for this product.
BIOLOGICAL LIMIT VALUES:	No biological limit allocated.
ENGINEERING CONTROLS:	Facilities should be equipped with an eyewash facility and a safety shower.
PERSONAL PROTECTIVE EQUIPMENT:	Wear suitable protective clothing which include chemical-resistant footwear, dust mask; eye shields and gloves (chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene and/or barrier laminate).

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (colour; physical form)	White grey suspension liquid
ODOUR:	Organic solvent
pH (1 % in water)	6 – 9
FREEZING POINT:	Not Available
FLASH POINT:	None observed
EXPLOSIVE LIMITS:	Not Available
DENSITY:	~1.07 g/mℓ
VAPOR PRESSURE (active ingredient):	2.49 mPa at 25 °C
VAPOR DENSITY:	No data
VISCOSITY:	2 769 mPa/s at 20 °C 1 442 mPa/s at 40 °C
SOLUBILITY IN WATER (active ingredient):	0.11 g/L (pH 7) 20 °C
n-Octanol/Water Partition Coefficient	K _{ow} log P = 2.84 (pH 6.1 at 25°C) (a.i. pyrimethanil)
AUTO-IGNITION TEMPERATURE:	Not Available
DECOMPOSITION TEMPERATURE:	189.9°C

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 a.i. /kg bw.
DERMAL:	LD ₅₀ (rats)	> 2 000 a.i. mg/kg bw.
INHALATION:	LC ₅₀ (4h) rat	> 2.320 a.i. mg/ℓ
SKIN:		Not a skin Sensitizer
EYES		Essentially non irritating

12. ECOLOGICAL INFORMATION (a.i.)

ECOTOXICITY:	Birds: Acute LD ₅₀ (oral)	Japanese Quail > 2 000 mg.kg ⁻¹ (<i>Coturnix japonica</i>) Mallard Duck > 2 000 mg.kg ⁻¹ (<i>Anas platyrhynchos</i>)
	Birds: Short term dietary LC ₅₀ /LD ₅₀	Bobwhite quail > 5 200 mg.kg.feed ⁻¹ (<i>Colinus virginianus</i>)
	Fish: Acute LC ₅₀ (96h)	Zebrafish 32.99 mg.ℓ ⁻¹ (<i>Danio rerio</i>) Rainbow Trout 10.56 mg.ℓ ⁻¹ (<i>Oncorhynchus mykiss</i>)
	Fish: Chronic NOEC (21d)	Rainbow Trout 1.6 mg.ℓ ⁻¹ (<i>Oncorhynchus mykiss</i>)
	<i>Daphnia magna</i> : Acute EC ₅₀ (24h)	5.37 mg.ℓ ⁻¹
	<i>Daphnia magna</i> : Acute EC ₅₀ (48h)	3.68 mg.ℓ ⁻¹

<i>Daphnia magna</i> : Chronic NOEC (21d)	0.94 mg.ℓ ⁻¹
Bees (48h contact)	LD ₅₀ > 263.088 µg.bee ⁻¹
Bees (48h oral)	LD ₅₀ > 579.7 µg.bee ⁻¹
<i>Einsenia foetida</i>	
Earthworms: Acute LC ₅₀ (14d)	LC ₅₀ > 1 000 mg.kg ⁻¹
<i>Pseudokirchneriella subcapitata</i>	E ₇ C ₅₀ (72h) 1.56 mg.ℓ ⁻¹ (yield)
Algae: Acute EC ₅₀ (72h)	E ₇ C ₅₀ (72h) 8.67 mg.ℓ ⁻¹ (growth rate)
	NOEC 0.1 mg.ℓ ⁻¹
	LOEC 0.32 mg.ℓ ⁻¹

Soil micro-organisms:

Carbon transformation	No long-term effect
Nitrogen transformation	No long-term effect

PERSISTENCE, DEGRADABILITY and MOBILITY:

DT₅₀ in laboratory studies 27 – 82 days; field studies indicate rapid degradation. DT₅₀ = 7 – 54 days. Low potential for leaching to groundwater, minimal movement into deeper soil layers. Pyrimethanil disappears rapidly from surface water.

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 empty container over mix or spray tank and allow draining for at least 30 seconds until flow has slowed to a drip. 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. Replace cap and return clean container to recycler. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT use container for any other purpose.

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 SUBSTANCES, Liquid, N.O.S (MIXTURE Contains Pyrimethanil)

GHS PICTOGRAM:



CLASS AND SUBSIDIARY RISK(S):	Class 9
PACKING GROUP:	III (minor danger)
HAZCHEM CODE:	Non allocated
Tel No:	+27 (0) 21 886 9812

15. REGULATORY INFORMATION

South African Registration number L8606, Act No. 36 of 1947

16. OTHER INFORMATION

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