

Sharda International Africa (Pty) Ltd

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

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

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

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SAFETY DATA SHEET

“VOLT 80 WG”

1. IDENTIFICATION OF PRODUCT AND COMPANY

Name of Product: “VOLT 80 WG”

Active Ingredient: Folpet 80 WG

Product Use: Fungicides

Registration holder: Sharda International Africa (Pty) Ltd

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

Contact Tel. No.: 031-764-3011

Poison Centres: UNITAS Hospital: 0800-111-9900
Tygerberg Hospital: 021-931-6129
Netcare 911: 082911

2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Folpet	133-07-3	80.0
Other ingredients	-	20.0

3. Hazards Identification

Human Health Hazards: Irritating to eyes.
Limited evidence of a carcinogenic effect.
May cause sensitization by skin contact.

Environmental hazard: Very toxic to aquatic organisms.

4. First Aid Measures

Inhalation: Keep victim warm and at rest. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person.

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Wash out mouth with plenty of water. Consult a doctor.

Skin contact: Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Consult a doctor in the event of any complaints.

Eye contact: Wash off with plenty of water. If pain persists, consult an eye specialist.

Note to physician: No specific antidote known. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

5. Fire-Fighting Measures

Extinguishing media: For small fire: foam, dry chemical, carbon dioxide.
For large fire: foam, water fog, water spray.

Special procedures: Fight fires from a protected location. Dike fire control water for later disposal.

Special exposure hazards: When heated to decomposition, emits toxic fumes: carbon dioxide, carbon monoxide, and nitrogen oxides, sulfur oxide, hydrogen chloride, CSCI2.

Protection against fire: Wear suitable protective clothing. Use self-contained breathing apparatus when in close proximity to fire.

6. Accidental Release Measures

Personal precautions: Use appropriate protection (see section 8).

Environmental precautions: Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities.

After spillage and/or leakage: Collect spilled material with shovel, place into a clean container and cover container loosely.

7. Handling and Storage

Handling: Avoid dust production. Do not breathe dust. Avoid contact with skin and eyes.

Storage: Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well ventilated place. Keep container dry.

Packing: Low density polyethylene open mouth bags. Woven polyethylene big bags.

8. Exposure Controls/Personal Protection

Industrial Hygiene: Occupational Exposure Limits Folpet: Not established
Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower .
Wash clothing before re-using. Wash hands thoroughly after handling.

- Respiratory protection: During spraying wear suitable respiratory equipment.
- Skin protection: Wear protective clothing and chemical resistant boots.
- Hand protection: Wear suitable gloves.
- Eye protection: Chemical goggles or safety glasses.

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9. Physical and Chemical Properties

Physical state:	Granules
Colour:	Off-White
Odor:	Faint odor (characteristic)
Molecular weight:	Folpet: 296.56
Melting Point: (°C)	Folpet: 177 (pure)
Bulk density:	650 -750 g/l
Vapour Pressure:	Folpet: $11.6 \times (10)^{-5}$ Pa (40°C - Pure)
Solubility in water:	Insoluble
Explosions limits:	Not explosive
Flammability:	Not flammable
Log P octanol:	Folpet: KOW = 1279

10. Stability and Reactivity

Physico-chemical stability:	Stable under normal dry conditions.
Hazardous decomposition products:	Thermal decomposition generates: carbon dioxide, carbon monoxide, and nitrogen oxides, sulfur oxide, hydrogen chloride, CSCl ₂
Hazardous Polymerization:	Will not occur.
Hazardous properties:	Alkali materials, such as lime and Bordeaux mixture will reduce fungicidal activity.
Conditions to avoid:	Protect from (sun) light, sources of heat, open flame, moisture.

11. Toxicological Information

Rat oral LD50 [mg/kg] :	>5000mg/kg
Rabbit dermal LD50 [mg/kg]:	>2000mg/kg
Rat inhalation LC50 [mg/l/4h] :	Not applicable
Dermal irritation (rabbit) :	Mildly irritating
Eyes irritation (rabbit) :	Irritating to eyes.
Sensitization:	Folpet Technical: Guinea pig maximization test: Extreme sensitizer.
Carcinogenicity:	Folpet : A two-year feeding study of Folpan indicated duodenal tumors in mice after repeated administration of high dose levels. The NOEL (No Observed Adverse Effect Level) was 450 ppm. No evidence of carcinogenicity was observed in longterm studies with rats. Information on the mechanism of tumor formation establishes a threshold for the duodenal tumors, and indicates that this tumor type is not relevant for human risk assessment at likely exposure levels.
Mutagenicity:	Folpet: Not mutagenic (in-vivo tests)
Reproductive toxicity:	Folpet: Not teratogenic in animal experiments

12. Ecological and Ecotoxicological Information

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96 H-LC50 - Rainbow trout [$\mu\text{g}/\text{Kg}$]:	0.103
48 H-EC50 - Daphnia magna [mg/l]:	0.14
72 H-EbC50 - Algae [mg/l]:	23.4
72 H-ErC50 - Algae [mg/l]:	157.8
LD50 Birds [mg/kg]:	Folpet ; >2000
Persistence and degradability	Folpet : The product is readily biodegradable
Mobility:	Folpet: Product does not leach to ground water.
Bioaccumulative potential:	Folpet does not bioaccumulate in aquatic organisms .
On ingredients:	Folpet: Low toxicity in actual use, due to its hydrolytic instability Toxic to aquatic organisms (fish and algae), in laboratory experiments .

13. Disposal Considerations

Disposal: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations

14. Transport Information

- UN No. :	3077
- Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (80% Folpet)
- Packing group :	III
- Class	9
- H.I. nr : :	90
- ADR/RID	9
- ADR class :	
- ADR Packing group :	III
- ADR Symbols :	Label 9 : Miscellaneous dangerous substances and articles.

15. Regulatory Information

EU Classification :	This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations :
Symbol(s)	Xn: Harmful. N: Dangerous for the environment.
R Phrase(s) :	R36 - Irritating to eyes. R40 - Limited evidence of a carcinogenic effect. R43 - May cause sensitization by skin contact. R50 - Very toxic to aquatic organisms.
S Phrase(s) :	S02 - Keep out of the reach of children. S13 - Keep away from food, drink and animal feedingstuffs. S20/21 - When using, do not eat, drink or smoke. S24/25 - Avoid contact with skin and eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35 - This material and its container must be disposed of in a safe way.

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S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such.

In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.