



75 WG

Product Registration Number: MAPP 10567

A water dispersible granule containing 8.3% w/w zoxamide + 66.7% w/w mancozeb

A protectant fungicide for the control of Vine Downy Mildew in Vines

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED # IS A LEGAL REQUIREMENT

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE

| | |
|-------------------------------------|---|
| Crop/Situation | Wine grapes (outdoor) |
| Maximum Individual Dose | 180 g product /hectolitre |
| Maximum Number of Treatments | 6 per annum |
| Latest Time of Application | 56 days before harvest |
| Other Specific Restrictions | A minimum of ten days must be observed between applications to vines |

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE



IRRITANT

**IRRITATING TO THE RESPIRATORY SYSTEM
MAY CAUSE SENSITISATION BY SKIN CONTACT
VERY TOXIC TO AQUATIC ORGANISMS
MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE
AQUATIC ENVIRONMENT**

WEAR SUITABLE GLOVES
AVOID CONTACT WITH SKIN
KEEP OUT OF REACH OF CHILDREN
THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.
USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION
To avoid risks to man and the environment comply with the instructions for use.



**DANGEROUS FOR
THE
ENVIRONMENT**

PROTECT FROM FROST

5.4kg net weight

SAFETY PRECAUTIONS

Operator protection:

#Engineering control of operator exposure must be used where reasonably practicable in addition to the

following personal protective equipment:

#WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

#However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental protection:

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used containers.

#DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 20 metres of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 metres of the top of a ditch which is dry at the time of application.

Aim spray away from water.



#DO NOT ALLOW DIRECT SPRAY from hand held sprayers to fall within 1 metre of the top of the bank of a static or flowing waterbody. Aim spray away from water.

#This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme for BROADCAST AIR-ASSISTED SPRAYERS ONLY. Before each spraying operation from a broadcast air-assisted sprayer either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years

Storage and disposal:

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

EMPTY CONTAINER completely and dispose of safely.

Approval holder:

Dow AgroSciences Limited, Latchmore Court, Brand Street, Hitchin, Hertfordshire, SG5 1NH

Telephone Hitchin (01462)457272, Fax: (01462) 426605

24 hour Emergency Telephone Number. UK: (0870) 600 2999

For further technical and safety advice during office hours contact:

Landseer Ltd, Lodge Farm, Goat Hall Lane, Galleywood, Chelmsford, Essex, CM2 8PH

Tel: 01245 357109 Fax: 01245 494165

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This label is compliant with the CPA Voluntary Initiative Guidance



CONDITIONS OF SUPPLY

Landseer Limited will be under no liability for any loss or damage resulting from the manner of use of their products other than in accordance with the label recommendations which may not be varied, amended or added to except in writing by Landseer Limited.

This label was printed in 2004. Should the product be purchased for use in subsequent years, please check with your supplier that no changes have been made in the recommendations since the leaflet was printed.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

GENERAL INFORMATION

UNIKAT* 75WG controls grape downy mildew in all varieties of vines

Notes

Do not use on grapevines for plant propagation.

Consult processors before use on crops for juice production

It is important to keep containers tightly closed and stored in a cool, dry place.

Keep away from fire and sparks.

Once the container has been opened the material should not be kept to the next season

MAXIMUM RESIDUE LEVEL

The maximum residue level for zoxamide in grapes of 5.0 mg/kg must not be exceeded.

RESISTANCE

Grape downy mildew is considered to be a disease with a high risk of developing resistance to fungicides. To reduce the risk it is in your interest to plan a programme of treatments using fungicides with different modes of action.

APPLICATION RATE

Ground application 0.18 kg in 100 litres of water as a high volume “to run-off” spray

APPLICATION

Increase the spray volume with the growth of the vine: for example, spray at 600 l/ha in early stages of leaf growth, up to 1000 l/ha at the beginning of flowering stage and increase toward 1600 l/ha from the end of flowering to later stages of fruit ripening. Rate applied is increased according to the above recommended spray concentration.

Avoid spray overlap or excessive application. The best available application technique, which minimises off-target drift, should be used to reduce effects on non-target insects or other arthropods

FIRST APPLICATION

In the absence of an official warning, apply the first spray at 5-6 leaves stage, preventively, or follow the official warnings for protectant compounds.

FURTHER APPLICATIONS

A minimum of 10 days must be observed between applications to vines

HARVEST INTERVAL AND NUMBER OF APPLICATIONS

A maximum of 6 applications of Unikat 75WG may be made to a Grape crop in one season, 4 pre flowering, and two post flowering, with a pre harvest interval of a minimum of 56 days.

MIXING

Add half the required volume of water to the spray tank and begin agitation. Remove the filter basket and pour the required amount of Unikat 75WG into the partially filled spray tank. Continue agitation while topping up the tank and during spraying and transport operations.

COMPATIBILITY

For information about tank mixtures please consult your distributor/advisor.

SAFETY DATA SHEET

This safety data sheet does not form part of the approved label under the Plant Protection Product Regulations 1995. Following the instructions on the pesticide label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

Product Name: **UNIKAT 75WG FUNGICIDE**

LV70: 16573 Issue Date: May 99 Ref: BG814
Revised March 04 (Section(s) 2-9,11, 12 & 14-16)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous components (see section 16 for complete R-phrases):

| | | | CAS | EC No |
|------------------------|---------|---------------------------|-------------|-----------|
| Mancozeb | 66.7% | Xi; R37, R43, N;R50/53 | 008018-01-7 | 235-654-8 |
| Zoxamide | 8.3% | Xi,N; R43-50/53 | 156052-68-5 | |
| Hexamethylenetetramine | 1.6% | F,Xn;R11-42/43 | 000100-97-0 | 202-905-8 |
| Inert Ingredience | Balance | | | |
| Composition Code | GF1045 | | | |

3. HAZARDS IDENTIFICATION

Irritating to respiratory system. May cause sensitisation by skin contact. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Ingestion

Do not induce vomiting. Provided the patient is conscious, wash mouth with water and give plenty of water to drink. Consult a physician. The decision of whether to induce vomiting or not should be made by a physician.

Eye Contact

Flush eyes with plenty of water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact

Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.

Inhalation

Remove to fresh air. Consult a physician if irritation develops.

Note to Physician

Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Carbon dioxide. Dry chemical. Foam. Water fog or fine spray.

Hazardous Combustion Products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Combustion products include: Hydrogen sulphide. Hydrogen chloride. Nitrogen oxides. Sulphur

oxides. Carbon oxides.

Protection of Firefighters

Wear protective clothing and use self-contained breathing apparatus.

Additional Information

Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems. Avoid breathing smoke. Work upwind of any spill.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear appropriate safety clothing and eye/face protection (see Section 8). Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of Cleaning Up

Spills should be cleaned up immediately using care to minimise generation of airborne dust. Collect all waste material and place in closable marked containers. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

7. HANDLING AND STORAGE

Handling

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

Storage

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Mancozeb: Dow AgroSciences recommendation is 1.0 mg/m³.

Engineering Controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Respiratory Protection

For most conditions, no respiratory protection should be needed. However, when airborne exposure guidelines and/or comfort levels may be exceeded use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Hand/Skin Protection

For brief contact, no precautions other than clean body-covering clothing and chemical resistant gloves should be needed. Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Nitrile, Polyvinyl chloride ("PVC" or "vinyl"), Neoprene. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. For emergency conditions: Use protective clothing impervious to this material. Selection of

specific items will depend on operation.

Eye/Face Protection

Safety glasses should be sufficient for most operations; however, for dusty operations wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------|-----------------------------|
| Appearance | : microgranules |
| Colour | : yellow to brown |
| Odour | : slightly sulphurous |
| Bulk density | : 0.6-0.7 kg/L |
| Vapour pressure | : negligible |
| Water solubility | : disperses |
| Explosive properties | : not explosive |
| Oxidising properties | : non-oxidising |
| Flammability | : non flammable |
| Self-ignition temperature | : 162 deg.C (approx) |
| pH | : 7 (1% aqueous suspension) |

10. STABILITY AND REACTIVITY

Chemical Stability

Is stable under normal storage conditions.

Conditions to Avoid

Avoid moisture. Excessive heat. Open flames.

Materials to Avoid

Oxidising agents. Acids.

Hazardous Decomposition Products

None under normal conditions of storage and use.

Thermal decomposition products include: Hydrogen sulphide. Carbon disulphide. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Ingestion

Low toxicity if swallowed. The oral LD50 for rats is >5000 mg/kg.

Skin Contact

The dermal LD50 for rats is >5000 mg/kg. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Prolonged or repeated exposure may cause slight skin irritation.

Sensitisation

Sensitising to guinea pig skin.

Eye Contact

May cause slight temporary eye irritation.

Inhalation

No adverse effects anticipated by this route of exposure incidental to proper handling. The LC50 for inhalation in rats is greater than the maximum attainable.

Additional Information

Not carcinogenic. Not mutagenic. Not toxic for reproduction.

12. ECOLOGICAL INFORMATION

Persistence and Degradability

Assessment largely or completely based on data for active ingredient.

Mancozeb: Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism. Tightly bound to soil and is extremely resistant to leaching and elution. Half-life in soils is dependent on soil type and conditions and is approximately 6-15 days.

Zoxamide: Half-life in soils is dependent on soil type and conditions and is approximately 2-10 days.

Aquatic Toxicity

Material is toxic to fish on an acute basis (1mg/L<LC50<10mg/L). Material is toxic to aquatic invertebrates on an acute basis (1mg/L<EC50<10mg/L). Material is very toxic to algae (IC50 <1.0

mg/l).

Avian Toxicity

Material is practically non-toxic to birds on an acute basis (LD50>2000mg/kg).

Additional Information

LD50 for earthworms is >1000 mg/kg

LD50 for bees is >100 microgram/bee

13. DISPOSAL CONSIDERATIONS

Very toxic to aquatic organisms. Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

14. TRANSPORT INFORMATION

Road & Rail

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID,N.O.S
(Mancozeb)
Truck/Rail ADR/RID : 9 Label : 9
Classification Code : M7
Packing Group : III
Kemler Code : 90 UN Number : 3077
Tremcard Nr. CEFIC : 90GM7-III

Sea

Proper shipping name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE,SOLID,N.O.S (Mancozeb)
Sea - IMO/IMDG : 9 UN Nr : 3077 Label : 9
Class
Packing Group : II EMS : F-AS-F :
Marine Pollutant : Y (Y/N)

Air

Proper shipping name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE,SOLID,N.O.S (Mancozeb)
Air-ICAO/IATA : 9 UN Nr : 3077 Label : 9
Class
Sub Class :
Packing Group : III Pack Instr. Passenger : 914
Pack Instr. Cargo : 914

Remarks : Sample shipment not allowed by mail

15. REGULATORY INFORMATION

Hazard Symbol : Xi – Irritant
N – Dangerous for the Environment
Risk Phrases : Irritating to respiratory system (R37).
May cause sensitisation by skin contact (R43).
Very toxic to aquatic organisms may cause long-term adverse effects in the
aquatic environment (R50/53)
Safety Phrases : Keep out of reach of children (S2)
Avoid contact with skin and eyes (S24).
This material and its container must be disposed of in a safe way (S35).
Wear suitable gloves (S37).

Use appropriate containment to avoid environmental contamination (S57)

16. OTHER INFORMATION

Risk-phrases in Section 2

R11 – Highly flammable

R37 – Irritating to respiratory system

R42/43 – May cause sensitisation by inhalation and skin contact.

R43 – May cause sensitisation by skin contact.

R50/53 – Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made.