



Melody[®] Duo

69 WG

Reg. No. 07-B-84-1

CONTENTS: 10 kg



HARMFUL IF SWALLOWED

COMPOSITION:	MASS/MASS
Iprovalicarb (amino acid amide-carbamate)	90 g/kg
Propineb (dithiocarbamate).....	600 g/kg
inert ingredients	310 g/kg

Chemical Group : Amino acid amide-carbamate and Dithiocarbamate

MELODY DUO IS A SYSTEMIC PREVENTIVE WATER DISPERSIBLE GRANULE FUNGICIDE MIXTURE FOR THE CONTROL OF LATE BLIGHT ON POTATOES AND TOMATOES.

Bayer

Packed For:
 Bayer Zimbabwe (Pvt) Ltd
 P.O. Box AY 78, Amby, Harare, Zimbabwe.
 Tel. 487211/487245-6 Fax: 487242
IN CASE OF POISONING PLEASE PHONE: +27(0) 861 555 777
 Manufactured by: Bayer (Pty) Ltd
Melody[®] is a registered trademark of the Bayer Group

Batch No.: See on pack
Date of Manufacture: See on pack

Zim/0317/Melody Duo 69 WG/Sales Panel
Code:85418920A



TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.

PRECAUTIONS:

1. Handle with care; poisonous by swallowing, inhalation and contact with skin.
2. Do not eat, drink or smoke whilst applying or handling the product.
3. Wear protective clothing, i.e. rubber gloves, rubber boots, overalls when handling or applying the product.
4. Clean applicator after use and safely dispose of wash water
5. KEEP OUT OF REACH OF CHILDREN UNINFORMED PERSONS AND ANIMALS
6. KEEP APART FROM FOOD AND FOODSTUFFS.
7. Store in original container and KEEP UNDER LOCK AND KEY.
8. Store in a cool place away from food and feedstuffs
9. Toxic to fish, do not contaminate drinking pools, dams, rivers and water ways.
10. **Re-entry:** Do not enter treated field until after the spray deposit has dried.
11. Wash contaminated clothing after use and wash yourself with soap & water
12. RINSE 3 TIMES WITH CLEAN WATER AND SAFELY DISPOSE OF WASHINGS, THEN PUNCTURE THE CONTAINER TO RENDER IT UNUSABLE, CRUSH OR FLATTEN AND THEN BURY IN A SAFE PLACE SO AS NOT TO CONTAMINATE ARABLE LAND OR GROUND WATERS.

SYMPTOMS OF POISONING:

No specific symptoms.

FIRST AID:

1. Remove patient from source of poisoning and remove contaminated clothing.
2. Wash contaminated area thoroughly with soap and water.
3. If swallowed, do not induce vomiting. Wash out mouth with water.
4. If eyes are contaminated, flush well with clean water for 10 - 15 minutes.
5. Seek medical help immediately if poisoning is suspected.
6. Show attending doctor container with label.

NOTE TO PHYSICIAN:

Treatment should be supportive and symptomatically.

Follow-up measures: Strict abstinence from alcohol for 1-2 weeks, due to Antabuse effect.

WARRANTY:

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the occurrence of resistance of the pathogen against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

APPLICATION:

CROPS	DISEASE	DOSAGE RATE	REMARKS
POTATOES AND TOMATOES	Late blight (<i>Phytophthora infestans</i>)	GROUND APPLICATION: 450 g / 100 ℓ water	Apply as an early, preventative, high volume spray in a minimum of 500 ℓ water per hectare (2.25 kg/ha). Ensure thorough coverage of the plants. Initially apply 2-3 consecutive Melody Duo 69 WP sprays, early in the growing season during conditions favourable for the development of late blight. After the initial sprays, alternate with other products, like Milraz 76 WP (7-10 day intervals), in the late blight spray programme. HARVEST INTERVAL: 3 Days on Potatoes and Tomatoes.

COMPATIBILITY:

Melody Duo 69 WG is compatible with **Folicur 250 EC**.

A physical compatibility test should be carried out before spraying.

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Bayer



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name MELODY DUO WG 69
Product code (UVP) 05850613

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer (Pty) Ltd.
27 Wrench Road, P.O. Box 143
1600 Isando
South Africa
Telephone +27 (011) 921 5911
Telefax +27 (011) 921 5766
Responsible Department QHSE - Nigel, South Africa
+27 (011) 365 8675 (during business hours only)

1.4 Emergency telephone no.

Emergency telephone no. +27 (0861) 555 777 (Western Cape Poisons Helpline)
Global Incident Response Hotline (24h) +1 (760) 476 3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Specific target organ toxicity - repeated exposure: Category 2
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Acute aquatic toxicity, Chronic aquatic toxicity: Category 1
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Iprovalicarb
- Propineb



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H373 May cause damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
 EUH208 Contains Propineb. May produce an allergic reaction.

Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Dust may form explosive mixture in air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Chemical nature**Water dispersible granules (WG)
Iprovalicarb 9%, Propineb 60%**Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification	Conc. [%]
		REGULATION (EC) No 1272/2008	
Iprovalicarb	140923-17-7	Not classified	9
Propineb	9016-72-2	STOT RE 2, H373 Skin Sens. 1, H317 Aquatic Acute 1, H400 Acute Tox. 4, H332	60
Alkylaryl sulfonate	91078-64-7	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Chronic 3, H412	> 1 – < 2

Further information

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures****General advice**

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation

Call a physician or poison control center immediately. Move to fresh air. Keep patient warm and at rest.



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Skin contact Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.) Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Symptoms reinforced by alcohol (Antabuse effect)

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. Follow-up measures: Strict abstinence from alcohol for 1 to 2 weeks, due to antabuse effect. Contraindication: atropine.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO₂), Foam, Sand

5.2 Special hazards arising from the substance or mixture Nitrogen oxides (NO_x), Carbon monoxide (CO), Hydrogen cyanide (hydrocyanic acid), Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

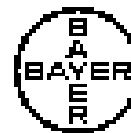
Precautions Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Use personal protective equipment.

6.2 Environmental precautions Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

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- 6.4 Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

- Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.
- Advice on protection against fire and explosion** Keep away from heat and sources of ignition.
- Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt). Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers** Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage** Keep away from food, drink and animal feedingstuffs.
- Suitable materials** Aluminium composite film (min. 0,007 mm Aluminium)
- 7.3 Specific end use(s)** Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
lprovalicarb	140923-17-7	0,36 mg/m ³ (TWA)		OES BCS*
Propineb	9016-72-2	0,2 mg/m ³ (SK-SEN)		OES BCS*

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

- Respiratory protection** If product is handled while not enclosed, and if contact may occur: Wear respirator with a particle filter mask (protection factor 20) conforming to European Norm EN149FFP3 or EN140P3 or equivalent.
- Hand protection** Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

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Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Material	Nitrile rubber
Rate of permeability	> 480 min
Glove thickness	> 0,4 mm
Protective index	Class 6
Directive	Protective gloves complying with EN 374.

Eye protection	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
Skin and body protection	Wear standard coveralls and Category 3 Type 3 suit.
General protective measures	If product is handled while not enclosed, and if contact may occur: Complete suit protecting against chemicals

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form	water-dispersible granules
Colour	light brown
Odour	weak, characteristic
pH	5,5 - 7,5 at 1 % (23 °C) (deionized water)
9.2 Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Thermal decomposition	Stable under normal conditions.
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10.2 Chemical stability	Stable under recommended storage conditions.
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10.3 Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions. No hazardous reactions when stored and handled according to prescribed instructions.
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10.4 Conditions to avoid	Extremes of temperature and direct sunlight.
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10.5 Incompatible materials	Acids Store only in the original container.
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10.6 Hazardous decomposition products	Hydrogen sulfide Carbon disulphide No decomposition products expected under normal conditions of use.
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SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute oral toxicity	LD50 (Rat) > 2.500 mg/kg
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	Test conducted with a similar formulation.
Acute inhalation toxicity	LC50 (Rat) > 4,9 mg/l Exposure time: 4 h Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (Rat) > 2.000 mg/kg Test conducted with a similar formulation.
Skin irritation	No skin irritation (Rabbit) Test conducted with a similar formulation.
Eye irritation	No eye irritation (Rabbit) Test conducted with a similar formulation.
Sensitisation	Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test Test conducted with a similar formulation. Non-sensitizing. (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment STOT Specific target organ toxicity – single exposure

Propineb: Based on available data, the classification criteria are not met.

Iprovalicarb: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Propineb caused specific target organ toxicity in experimental animal studies in the following organ(s): Peripheral nervous system, Thyroid. Propineb caused Muscular weakness in animal studies. The observed effects do not appear to be relevant for humans.

Iprovalicarb did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Propineb was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Iprovalicarb was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Propineb caused an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

Iprovalicarb was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Propineb caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Propineb is related to parental toxicity.

Iprovalicarb did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Propineb did not cause developmental toxicity in rabbits. Propineb caused developmental toxicity in rats only at dose levels toxic to the dams. The developmental effects seen with Propineb are related to maternal toxicity.

Iprovalicarb did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 0,891 mg/l
Exposure time: 96 h
Test conducted with a similar formulation.

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 5,1 mg/l
Exposure time: 48 h
Test conducted with a similar formulation.

Toxicity to aquatic plants EC50 (Raphidocelis subcapitata (freshwater green alga)) 0,29 mg/l
Exposure time: 72 h
Test conducted with a similar formulation.

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Additional ecological information No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

SECTION 14: TRANSPORT INFORMATION

SANS 10231

14.1 UN number **3077**
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environm. Hazardous Mark YES

IMDG

14.1 UN number **3077**
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Marine pollutant YES



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IATA

14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROPINEB MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Further information

WHO-classification: III (Slightly hazardous)

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %



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LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.