

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)
and Commission Regulation (EU) No 453/2010

LAMINATOR 75WG



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
LAMINATOR 75WG
Mancozeb 750 g/kg, water dispersible granule
GIFAP Code : WG
EC number: not applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against
Fungicide (agricultural use)
Not for public use

1.3. Details of the supplier of the safety data sheet
INTERFARM (UK) LIMITED
36 Newgate Street
Doddington
Cambridgeshire PE15 0SR
United Kingdom
Tel.: +44 (0)1354 741414
email: technical@interfarm.co.uk

1.4. Emergency Telephone number 24/24hrs
UK & Ireland; +44 (0)844 560 5135

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classified as hazardous according to regulation (EC) No 1272/2008 (CLP)

Health Hazard: Skin Sens. 1, Repr. Cat. 2, Eye Irrit. Cat. 2
Environmental Hazard : Aquatic Acute 1 (M factor-10)
Aquatic Chronic 2;

Classified as hazardous according to:

- EU directive 67/548/EEC modified by Directive 2001/59/EC (results of the experimental studies),
- Directives 1999/45/EC, 2001/60/EC, 2006/8/EC (classification based on the concentration of active substance and ingredients),
- Directive 2003/82/EC for pesticides (special risks and safety precautions).

Classification: Xn Harmful
N Dangerous for the environment
Human health hazards: R63: Possible risk of harm to the unborn child
R43: May cause sensitisation by skin contact
Environmental hazards: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

2.2. Label elements

Signal word(s)

Warning

Pictogram (s)



Hazard statement(s)

H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H361d: Suspected of damaging the unborn child
H410: Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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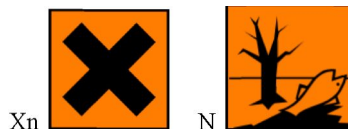
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up

P501 (UK): Dispose of contents/container to a licensed hazardous-waste contractor or collection site except for empty clean containers, which can be disposed of as non-hazardous waste.

EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

Symbol:



Risk phrases:

R63: Possible risk of harm to the unborn child.

R43: May cause sensitisation by skin contact

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

Safety phrases:

S2: Keep out of the reach of children.

S24: Avoid contact with skin.

S35: This material and its container must be disposed of in a safe way.

S36/37: Wear suitable protective clothing and gloves.

S57: Use appropriate container to avoid environmental contamination.

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

Special risks and safety precautions (directive 91/414/EEC):

General provisions

SP 1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

SPe 3: To protect aquatic organisms respect an unsprayed buffer zone of (details see label) surface water bodies.

Specific safety precautions

None

2.3. Other hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. This product is to be considered as a mixture in conformance to EC directives.

Chemical name	%	CAS	ELINECS	Index Nr. Regulation (EC) No 1272/2008 Annex VI	Classification 67/548/EEC [DSD]	Classification Regulation (EC) No 1272/2008 [CLP]
Mancozeb	75	8018-01-7	-	006-076-00-1	[Xn]: Repr. Cat. 3 N: R63-43-50	Repr. 2, Skin Sens. 1, Aquatic Acute 1; H361d - H317 -H400
Inert ingredients	25		-	-	--	

For the complete text of R phrases and H statements, please refer to section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General

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

Inhalation

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

Skin

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

Eye

Flush eyes thoroughly with 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.

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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.

4.2. Most important symptoms and effects, both acute and delayed

Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.

Skin contact There may be mild irritation at the site of contact.

Eye contact There may be irritation and redness. The vision may become blurred.

Ingestion There may be soreness and redness of the mouth and throat.

4.3. Indication of any immediate medical attention and special treatment needed

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

Emergency Personnel Protection

If potential for exposure exists refer to Section 8 for specific personal protective equipment. First Aid responders should pay attention to self-protection and use the recommended protective clothing.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing media Water spray. Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.

Unsuitable extinguishing media None or full water jet.

5.2. Special hazards arising from the substance or mixture

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. Carbon disulphide. Nitrogen oxides. Sulphur oxides. Carbon oxides.

5.3. Advice for fire-fighters

Wear protective clothing and self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

Special Protective Equipment for Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections

Other information

Do not permit dust to accumulate. Dust layers can be ignited by spontaneous combustion or other ignition sources. When suspended in air dust can pose an explosion hazard. 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

6.1. Personal precautions, protective equipment, and emergency procedures

Eliminate all sources of ignition. Do not create dust. 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.

6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Spills should be cleaned up immediately using care to minimise generation of airborne dust. Do not use equipment in clean-up procedure which may produce sparks. Collect all waste material and place in closable marked containers. For large spills, barricade area and consult manufacturer. Transfer to a closable, labelled salvage container for disposal by an appropriate method

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- 6.4. Reference to other sections** See Section 1 for emergency contact information
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling Use good personal hygiene. Do not consume or store food in the work area. Proper ventilation is recommended to control dust formation. Transfer equipment should be grounded and bonded to avoid static charge and spark-proof equipment should be used. Wash hands and exposed skin before eating, drinking or smoking and after work.

7.2. Conditions for safe storage, including any incompatibilities Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. This product is combustible and should not be exposed to flames or other ignition sources. Do not allow material to become wet or overheated in storage; decomposition, impaired activity or fire may result. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children. Must only be kept in original packaging

7.3. Specific end use(s) Use as an agricultural/horticultural fungicide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure controls

Control of Professional exposure Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Individual protection measures

Respiratory

Wear dual cartridge respirator for dusts and mists. 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

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.

Eyes/Face

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

Engineering controls

Ventilation: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there is no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Other information

None.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Granules
Colour Greenish yellow to light yellow

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Odour	Musty
Odour threshold	No data available
pH value	No data available
Melting/Decomposition temp.	Not applicable/decomposes 192-204°C
Initial boiling point & boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	Negligible
Vapour density	No data available
Relative density	No data available
Bulk density	No data available
Solubility in water	Dispersible in water
Solubility in other solvents	No data available
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
9.2. Other information	No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity	No dangerous reactions known under conditions of normal use.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	Acids and moisture (in storage). Excessive heat. Open flames.
10.4. Conditions to avoid	Acids and moisture (in storage). Excessive heat. Open flames.
10.5. Incompatible materials	Acids.
10.6. Hazardous decomposition products	None under normal conditions of storage and use. Thermal decomposition products include Hydrogen sulphide. Carbon disulphide.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	
Oral	LD50 rat: > 2000 mg/kg
Dermal	LD50 rat: > 2000 mg/kg
Inhalation	LC50 rat (4-hours): > 3.53 mg/l
Irritation	
Skin	not irritating
Eye	not irritating
Sensitization	not sensitizing

The following data are applicable to the ingredient(s) listed below :

Name	Active substance Mancozeb, technical grade
Other toxicological information	Subchronic toxicity - Oral toxicity NOAEL (dog): 7.6 mg/kg bw/day (1y) - Oral toxicity NOAEL (rat): 7.0 mg/kg bw/day (2 generation) - Oral toxicity NOAEL (rat): 7.4 mg/kg bw/day (90d) Chronic toxicity - Carcinogenicity NOAEL: 125 ppm (4.8 mg/kg bw/d) (rat) Not carcinogenic (Mancozeb)

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- Teratology NOEL: 60 mg/kg bw/d (rat) Not teratogenic (Mancozeb)
- Toxicity to reproduction NOAEL/NOEL: 150 ppm (rat) Toxic to reproduction (Mancozeb)
- Mutagenicity effects: No evidence for the induction of gene mutations or cell transformation (Mancozeb)

Information on likely routes of exposure

This product is for agricultural use, therefore the most probable routes of exposure are via skin or inhalation.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Fish	Acute toxicity, 96h (<i>Cyprinus carpio</i>): LC50 > 1.0 mg/l
Daphnia	Acute toxicity, 48h (<i>Daphnia magna</i>): 0.1 mg/l < EC50 ≤ 1.0 mg/l (2.6 mg a.s./l)
Algae	Acute toxicity, 72h (<i>Pseudokirchneriella subcapitata</i>): 0.1 mg/l < EC50 ≤ 1.0 mg/l 0.01 mg/l < NOEC ≤ 0.1 mg/l
Birds	Acute toxicity, LD50 > 2000 mg/kg
Bees	Acute oral toxicity, LD50: > 100 µg/bee Acute contact toxicity, LD50: > 100 µg/bee

12.2. Persistence and degradability Half-life in soils is dependent on soil type and conditions and is approximately 6-15 days

12.3. Bioaccumulative potential Bio-concentration potential is low. Partition coefficient, n-octanol/water (log Pow): 1.38

12.4. Mobility in soil Potential for mobility in soil is low. Partition coefficient, soil organic carbon/water (Koc): 1000 Estimated

12.5. Results of PBT and vPvB assessment

According to Directive 1907/2006/EC (REACH) none of the substances, contained in this product is considered to be persistent, bioaccumulating and toxic (PBT).
According to Directive 1907/2006/EC (REACH) none of the substances, contained in this product is considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects Very toxic to aquatic organisms. Hazardous water pollutant.

13. DISPOSAL CONSIDERATIONS

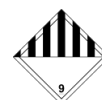
13.1. Waste treatment methods Very toxic to aquatic organisms. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Product/packaging Dispose of in a regulated landfill site or other method for hazardous or toxic wastes

14. TRANSPORT INFORMATION

Land transport ADR/RID:

14.1. UN Number	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Mancozeb (ISO)
14.3. Transport hazard class(es)	9
14.4. Packing group	III
14.5. Environmental hazards	Environmentally hazardous Hazard label: 9



14.6. Special precautions for user	Classification code: M7
	Limited quantity: 5 kg
	Transport category: 3
	Hazard No: 90

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Inland waterways transport: Tunnel restriction code: E

14.1. UN Number 3077
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Mancozeb (ISO)
14.3. Transport hazard class(es) 9
14.4. Packing group III
14.5. Environmental hazards Marine pollutant
Hazard label: 9



14.6. Special precautions for user Classification code: M7
Limited quantity: LQ27

Marine transport IMDG:

14.1. UN Number 3077
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Mancozeb (ISO)
14.3. Transport hazard class(es) 9
14.4. Packing group III
14.5. Environmental hazards Marine pollutant
Hazard label: 9



14.6. Special precautions for user Classification code: M7
Limited quantity: 5 kg / 30 kg
EmS: F-A, S-F

Air transport ICAO:

14.1. UN Number 3077
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Mancozeb (ISO)
14.3. Transport hazard class(es) 9
14.4. Packing group III
14.5. Environmental hazards Environmentally hazardous
Hazard label: 9



14.6. Special precautions for user Limited quantity Passenger: Y956 / 30 kg G
IATA-packing instructions: Passenger: 956
IATA-max. quantity: Passenger: 400 kg
IATA-packing instructions: Cargo: 956
IATA-packing instructions: Cargo: 400 kg

15. REGULATORY INFORMATION

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

1999/13/EC (VOC): 0%

European Inventory of Existing Commercial Chemical Substances (EINECS) The components of this product are on the EINECS inventory or are exempt from inventory requirements

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for childbearing mothers and nursing

Water: contaminating class (D): 2, water contaminating

15.2. Chemical safety assessment To avoid risks to man and the environment, comply with the instructions for use. For proper and safe use of this product, please refer to the approval conditions laid down on the product label. No CSR required because it is a plant protection product.

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16. OTHER INFORMATION

Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
RID = Regulations concerning the International Transport of Dangerous Goods by Rail
ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
VOC = Volatile organic compound
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative
bw = body weight
LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration
NOEC = No Observed Effect Concentration
NOEL = No Observed Effect Level
NOAEL = No Observed Adverse Effect Level

Note: The R-phrase R43 was included in the classification of the product because it contains significant amount of sensitizing substances.

Risk phrases used in Section 2/3:

R63: Possible risk of harm to the unborn child
R43: May cause sensitisation by skin contact
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H-Statements used in Section 2/3:

H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H361d: Suspected of damaging the unborn child
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Changes made to the previous version: Revision to meet requirements of Regulation 1907/2006 and Regulation 453/2010
[Based on IND-IIL/MCZ/03750/1]

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.