

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Name : GALBEN M 73 WP
Product code : 6522

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

FMC CHEMICAL Sprl
Boulevard de la Plaine, 9/3
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T 00 32 2 6459584 - F 00 32 2 6459655
msdsinfo@fmc.com

1.4. Emergency telephone number

Emergency number : 00 32 14 58 45 45 (all countries)

Country	Organisation/Company	Address	Emergency number
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B - 1120 Brussels	+32 70 245 245
Bulgaria	National Toxicological Information Centre National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
Czech Republic	Toxikologické informační středisko	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402
Denmark	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12
Finland	Myrkytystietokeskus	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
France	ORFILA	http://www.centres-antipoison.net	+33 (0)1 45 42 59 59
Germany	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben Institut für Toxikologie, Klinische Toxikologie und Giftnotruf Berlin	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
Hungary	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166 (public, 8am - 10pm, 7/7)
Italy	Centro Antiveneni Ospedale Niguarda Ca' Granda	Piazza Ospedale Maggiore 3 20162 Milano	+39 02 6610 1029
Lithuania	Poisons Control and Information Bureau	Siltnamiu 29 2043 Vilnius	+370 523 62052 +370 687 53378
Netherlands	Nationaal Vergiftigingen Informatie Centrum (Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen)	Heidelberglaan 100 3584 CX Utrecht	+31 30 274 88 88
Norway	Giftinformasjonen Directorate of Health and Social Affairs	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300
Poland	Warsaw Poison Control and Information Centre Praski Hospital	Al. Solidarnosci 67 P-03 401 Warszawa	+48 22 619 66 54 +48 22 619 08 97
Portugal	Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
Romania	Institutul National de Sanatate Publica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 Bucuresti, directie.generala {at} insp.gov.ro 050463 Bucuresti	+40 21318 3606
Slovakia	National Toxicological Information Centre University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166

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Country	Organisation/Company	Address	Emergency number
Slovenia	Poison Centre Division of Internal Medicine	University Clinical Centre Zaloska 7 1525 Ljubljana	+ 386 41 650 500
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
Sweden	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	08-331231 (Måndag-Fredag; 9.00-17.00) 112 (0.00-24.00)
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Adverse physicochemical, human health and environmental effects : Suspected of damaging the unborn child
May cause an allergic skin reaction
Very toxic to aquatic life with long lasting effects
Not classified as flammable according to EC criteria, but may present a risk in the event of a fire.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1 H317
Repr. 2 H361d
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of classification categories and H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Warning

Hazard statements (CLP) : H317 - May cause an allergic skin reaction
H361d - Suspected of damaging the unborn child
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P308+P313 - IF exposed or concerned: Get medical advice/attention
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

2.3. Other hazards

Other hazards not contributing to the classification : None, to our knowledge.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Mancozeb	(CAS No) 8018-01-7 (EC index no) 006-076-00-1	< 70	Repr. 2, H361d Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

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Benalaxyl	(CAS No) 71626-11-4 (EC no) 275-728-7 (EC index no) 616-104-00-X	< 10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodium 4,4'-dihydroxydiphenyl sulphonate	(CAS No) 102958-53-2	< 5	Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air
If irritation persists, consult a doctor.
- First-aid measures after skin contact : Remove all contaminated clothing and footwear
Wash with soapy water
If case of redness or irritation, call a doctor.
- First-aid measures after eye contact : Rinse immediately with plenty of water
If irritation persists, consult an eye specialist.
- First-aid measures after ingestion : If necessary seek medical advice.

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

- Symptoms/injuries : No specific effects and/or symptoms are known.

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

Treat symptomatically and supportively in response to reactions of patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂)
Foam
Powder.
- Unsuitable extinguishing media : Water (the product is dangerous for the environment - do not dilute it).

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : On combustion or on thermal decomposition (pyrolysis) releases :
Carbon oxides (CO, CO₂)
Nitrogen oxides.

5.3. Advice for firefighters

- Firefighting instructions : Isolate fire area. Evacuate downwind
Do not breathe fumes
Contain the extinguishing fluids by bunding (the product is hazardous for the environment).
- Protection during firefighting : Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Avoid contact with skin and eyes
Do not breathe dust
In case of important spillage :
Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment
For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow product to spread into the environment
Contain the spilled material by bunding (product is hazardous for the environment).

6.3. Methods and material for containment and cleaning up

- For containment : Sweep up or vacuum up the product
Avoid creating or spreading dust.
- Methods for cleaning up : Wash with plenty of water and detergent
Dispose of contaminated material at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station
Avoid contact with skin and eyes
Do not breathe dust. |
| Hygiene measures | : Always wash hands after handling the product
Do not eat, drink or smoke during work
Always take a shower after work. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|---------------------|--|
| Storage conditions | : Keep in a well-ventilated room
Keep cool
Keep away from ignition sources
Keep out of the reach of children
Keep away from food, drink and animal feeding stuffs. |
| Packaging materials | : Original packaging. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- | | |
|----------------------------------|--|
| Appropriate engineering controls | : Ensure good ventilation of the work station
Extraction to remove dust at its source
Safety shower
Eye fountain. |
| Hand protection | : Nitrile-rubber protective gloves
Neoprene protective gloves |
| Eye protection | : Safety spectacles with side shields |
| Skin and body protection | : Handling large quantities of product: Impermeable suit (Hypalon, Tyvek, Saranex, PVC...). |
| Respiratory protection | : Filtering respiratory protective device with a pesticide canister |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|---|---------------------------|
| Physical state | : Solid |
| Colour | : Slightly yellow. |
| Odour | : slight. |
| Odour threshold | : Not applicable |
| pH | : 7.26 |
| pH solution | : 1 % |
| Relative evaporation rate (butyl acetate=1) | : Not applicable |
| Melting point | : Not applicable |
| Boiling point | : Not applicable |
| Flash point | : Not applicable |
| Auto-ignition temperature | : 155 °C |
| Decomposition temperature | : Not applicable |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : Not applicable |
| Relative vapour density at 20 °C | : Not applicable |
| Relative density | : 0.427 |
| Solubility | : Water: Dispersible |
| Log Pow | : No data available |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Not explosive. |
| Oxidising properties | : Non oxidizing material. |
| Explosive limits | : No data available |

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

None to our knowledge.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

GALBEN M 73 WP	
LD50 oral rat	4700 mg/kg
LD50 dermal rat	> 4000 mg/kg
LC50 inhalation rat	> 5148 mg/m ³ (4h)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Slightly irritating to the eyes

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Benalaxyl :
No mutagenic effects were noted

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Benalaxyl :
No carcinogenic effect was noted

Reproductive toxicity : Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

Benalaxyl (71626-11-4)	
NOAEL, rat	(2 years) : 100 ppm (4.42 mg/kg/day)
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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LC50 fish	0.81 mg/l/96h
EC50 Daphnia	0.26 mg/l/48h
EC50 other aquatic organisms	3.7 mg/l/72h

12.2. Persistence and degradability

GALBEN M 73 WP	
Persistence and degradability	Mixture based on substances which are not readily biodegradable.
Benalaxyl (71626-11-4)	
Persistence and degradability	Not readily biodegradable Half-life (d) : 157 (20 °C - pH=9).

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12.3. Bioaccumulative potential

Benalaxyl (71626-11-4)	
BCF	57
Log Pow	3.54 (20 °C - pH = 6.1)
Mancozeb (8018-01-7)	
Log Pow	1.33

12.4. Mobility in soil

Benalaxyl (71626-11-4)	
Ecology - soil	The product is not mobile in soil.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Discharging into rivers and drains is forbidden Dispose of in accordance with relevant local regulations Incinerate at a licensed installation.
Waste disposal recommendations	: Dirty containers shall not be handled as normal waste Dispose of at a licensed waste collection centre Incinerate at a licensed installation Do not re-use empty containers.
Additional information	: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

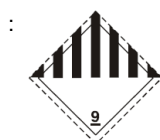
UN-No. (ADR)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077

14.2. UN proper shipping name

Transport document description	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb(8018-01-7) ; Benalaxyl(71626-11-4)), 9, III, (E)
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14.3. Transport hazard class(es)

Transport hazard class(es)	: 9
Hazard labels	: 9



14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes

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Other information

:



Dangerous for the environment

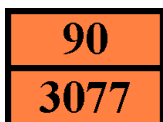
14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7

Hazard identification number (Kemler No.) : 90

Orange plates :



Tunnel restriction code (ADR) : E

- Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967

- Air transport

Special provisions (IATA) : A97, A158, A179, A197

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment acc. to art. 14 of Regulation (EC) No 1907/2006 is not required, because art. 15 of the same regulation applies

SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page)

SDS changed section(s) : 2-3.

Other information

: Galben and FMC are registered trademarks of FMC Corporation.

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H317	May cause an allergic skin reaction
H361d	Suspected of damaging the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
EUH401	To avoid risks to human health and the environment, comply with the instructions for use

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product