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CVR No. DK 12 76 00 43

Product code	6522	Page 1 of 13
Product name	Galben M	July 2019
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes April 2017

SAFETY DATA SHEET

Galben M

Revision: Sections containing a revision or new information are marked with a ♣.

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

- 1.1. **Product identifier** **Galben M**
Contains mancozeb
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against** Can be used as fungicide only.
- 1.3. **Details of the supplier of the safety data sheet** **FMC Agricultural Solutions A/S**
Thyborønvej 78
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- 1.4. **Emergency telephone number**
Medical emergencies:
- | | |
|-------------------------------------|---|
| Austria: +43 1 406 43 43 | Luxembourg: +352 8002 5500 |
| Belgium: +32 70 245 245 | Netherlands: +31 30 274 88 88 |
| Bulgaria: +359 2 9154 409 | Norway: +47 22 591300 |
| Cyprus: 1401 | Poland: +48 22 619 66 54 |
| Czech Republic: +420 224 919 293 | +48 22 619 08 97 |
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| Denmark: +45 82 12 12 12 | +351 21 330 3284 |
| England and Wales: 111 | Romania: +40 21318 3606 |
| Estonia: +372 7943500 | Scotland: +8454 24 24 24 |
| France: +33 (0) 1 45 42 59 59 | Slovakia: +421 2 54 77 4 166 |
| Finland: +358 9 471 977 | Slovenia: +386 41 650 500 |
| Greece: 30 210 77 93 777 | South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.) |
| Hungary: +36 80 20 11 99 | Spain: +34 91 562 04 20 |
| Ireland (Republic): +353 1 837 9964 | Sweden: +46 08-331231 |
| Italy: +39 02 6610 1029 | 112 |
| Latvia: +371 670 42 473 | Switzerland: 145 |
| 112 | Turkey: 114 |
| Lithuania: +370 523 62052 | U.S.A. & Canada: +1 800 / 331 3148 |
| +370 687 53378 | All other countries: +1 651 / 632 6793 (Collect) |

For fire, leak, spill or other accident emergencies:

U.S.A.: +1 800 / 424 9300 (CHEMTREC)
All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

Product code	6522	Page 2 of 13
Product name	Galben M	July 2019

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. **Classification of the substance or mixture**
- Sensitisation – skin: Category 1 (H317)
 Toxic to reproduction: Category 2 (H361d)
 Hazards to the aquatic environment, acute: Category 1 (H400)
 chronic: Category 1 (H410)

WHO classification Class U (Unlikely to present acute hazard in normal use)

Health hazards The product may harm the unborn child. It can cause allergic sensitisation.

Environmental hazards The product is very toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Galben M
 Contains mancozeb

Hazard pictograms (GHS07, GHS08, GHS09)



Signal word Warning

Hazard statements

H317 May cause an allergic skin reaction.
 H361d Suspected of damaging the unborn child.
 H410 Very toxic to aquatic life with long lasting effects.

Supplementary hazard statement

EUH401 To avoid risks to human health and the environment, comply with the instructions of use.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing vapours.
 P280 Wear protective gloves, protective clothing and eye protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/container as hazardous waste.

- 2.3. **Other hazards** None of the ingredients in the product meets the criteria for being PBT or vPvB.

♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1. **Substances** The product is a mixture, not a substance

Product code	6522	Page 3 of 13
Product name	Galben M	July 2019

3.2. **Mixtures** See section 16 for full text of hazard statements.

Active ingredients

Benalaxyl Content: 8% w/w
 CAS name Methyl N-(2,6-dimethylphenyl)-N-(phenylacetyl)-DL-alaninate
 CAS no. 71626-11-4
 IUPAC name(s) Methyl N-phenylacetyl-N-2,6-xylyl-DL-alaninate
 ISO name/EU name Benalaxyl
 EC no. (EINECS no.) 275-728-7
 EU index no. 616-104-00-X
 Molecular weight 325.4
 Classification of the ingredient Hazards to the aquatic environment, acute: Category 1 (H400)
 chronic: Category 1 (H410)

Mancozeb Content: 76% w/w
 CAS name Manganese, [N-[2-[(dithiocarboxy)amino]ethyl]carbamo-dithioate(2-)-κS,κS']-, mixt. with [(dithiocarboxy)amino]ethyl]carbamo-dithioate-(2-)-κS,κS']zinc
 CAS no. 8018-01-7
 IUPAC name(s) Manganese ethylenebis (dithiocarbamate) (polymeric) complex with zinc salt
 ISO name/EU name Mancozeb
 EC no. (EINECS no.) None
 EU index no. 006-076-00-1
 Molecular weight 271.2
 Classification of the ingredient Sensitisation – skin: Category 1 (H317)
 Toxic to reproduction: Category 2 (H361d)
 Hazards to the aquatic environment, acute: Category 1 (H400)

Reportable ingredients

	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Kaolin	7	1332-58-7	310-194-1	Not classified
Sulfurous acid, monosodium salt, compd. with formaldehyde polymer with 4,4'-sulfonylbis(phenol)	2	102958-53-2	None	Aquatic Chronic 2 (H411)

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures**

Inhalation If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

Skin contact Clothing contaminated with material must be removed immediately and all skin washed thoroughly with water and soap. Get medical attention if any symptom develops.

Eye contact Immediately rinse eyes with much water or eyewash solution,

Product code	6522	Page 4 of 13
Product name	Galben M	July 2019

occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. See physician if irritation develops.

Ingestion	Let the exposed person rinse mouth and drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately.
4.2. Most important symptoms and effects, both acute and delayed	Not known.
4.3. Indication of any immediate medical attention and special treatment needed	Immediate medical attention is required in case of ingestion. It may be helpful to show this safety data sheet to physician.
Notes to physician	A specific antidote for exposure to this material is not known. Gastric lavage and/or the administration of activated charcoal can be considered. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media	Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.
5.2. Special hazards arising from the substance or mixture	The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as nitrogen oxides, carbon sulphide, sulphur dioxide, carbon monoxide and carbon dioxide.
5.3. Advice for firefighters	Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	It is recommended to have a predetermined plan for the handling of spills. Empty, sealable vessels for the collection of spills should be available. In case of large spill (involving 10 tonnes of the product or more): 1. use personal protection equipment; see section 8 2. call emergency telephone no.; see section 1 3. alert authorities. Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots.
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Product code	6522	Page 5 of 13
Product name	Galben M	July 2019

Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area.

6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).

Surface water drains should be covered if appropriate. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with strong industrial detergent and much water. Absorb wash liquid onto inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and collect in suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections

See subsection 8.2. for personal protection.
 See section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

In an industrial environment it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after each use.

Product code	6522	Page 6 of 13
Product name	Galben M	July 2019

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

7.2. Conditions for safe storage, including any incompatibilities

The product is stable under normal conditions of warehouse storage (0 - 40°C). Protect from frost and extreme heat.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

7.3. Specific end use(s)

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Personal exposure limits

To our knowledge not established for any of the ingredients in this product except kaolin.

Kaolin		Year	
		2015	2017
	ACGIH (USA) TLV	2015	2 mg/m ³ , respirable fraction of the aerosol
	OSHA (USA) PEL	2015	15 mg/m ³ , total dust
			5 mg/m ³ , respirable fraction
	EU, 2000/39/EC as amended	2017	Not established
	Germany, MAK	2014	Not established
	HSE (UK) WEL	2011	2 mg/m ³ , respirable dust

However, other personal exposure limits defined by local regulations may exist and must be observed.

Benalaxyl

DNEL

Not established

PNEC, aquatic environment

The EFSA has established an AOEL of 0.06 mg/kg bw/day
 0.01 µg/l

Mancozeb

DNEL

Not established

PNEC, aquatic environment

The EFSA has established an AOEL of 0.035 mg/kg bw/day
 0.146 µg/l

8.2. Exposure controls

When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the

Product code	6522	Page 7 of 13
Product name	Galben M	July 2019

system. Consider the need to render equipment or piping systems non-hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.

In cases of incidental high exposure, maximal personal protection may be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

In the event of an accidental discharge of the material which produces a heavy vapour or dust, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves

Wear chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate protection.



Eye protection

Wear safety glasses. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on physical and chemical properties

Appearance	Light yellowish solid (powder)
Odour	Slight
Odour threshold	Not determined
pH	1% dispersion in water: 7.26
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid/gas)	Not highly flammable
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined

Product code	6522	Page 8 of 13
Product name	Galben M	July 2019

Relative density	0.427
Solubility(ies)	Not determined
Partition coefficient n-octanol/water	Benalaxyl : log K _{ow} = 3.54 at 20°C and pH 6.1
	Mancozeb : log K _{ow} = 1.33
Autoignition temperature	155°C
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2. Other information

Miscibility	The product is dispersible in water.
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	To our knowledge, the product has no special reactivities.
10.2. Chemical stability	The product is stable during normal handling and storage at ambient temperatures.
10.3. Possibility of hazardous reactions	None known.
10.4. Conditions to avoid	Heating of the product will evolve harmful and irritant vapours.
10.5. Incompatible materials	None known.
10.6. Hazardous decomposition products	See subsection 5.2.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	* = Based on available data, the classification criteria are not met.
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Product

Acute toxicity	The product is not considered as harmful by single exposures. * The acute toxicity is measured as:
Route(s) of entry	
- ingestion	LD ₅₀ , oral, rat: > 4700 mg/kg
- skin	LD ₅₀ , dermal, rat: > 4000 mg/kg
- inhalation	LC ₅₀ , inhalation, rat: > 5.148 mg/l/4 h (method OECD 403)
Skin corrosion/irritation	Not irritating to skin. *
Serious eye damage/irritation	Slightly irritating to eyes. *
Respiratory or skin sensitisation ...	May cause skin sensitisation.
Germ cell mutagenicity	The product contains no ingredients known to be mutagenic. *
Carcinogenicity	The product contains no ingredients known to be carcinogenic. *

Product code	6522	Page 9 of 13
Product name	Galben M	July 2019

Reproductive toxicity	The product contains mancozeb, which may have adverse effects on development of offspring.
STOT – single exposure	To our knowledge, no specific effects have been observed after single exposure. *
STOT – repeated exposure	The following is measured on the active ingredient mancozeb: Target organ: thyroid NOAEL: 7 mg/kg bw/day in a 90-day rat study. *
Aspiration hazard	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	None known.
<u>Benalaxyl</u>	
Toxicokinetics, metabolism and distribution	Benalaxyl is rapidly absorbed after oral administration and widely distributed in the body. It is excreted almost completely within a week. It is extensively metabolised. There is no evidence of accumulation.
Acute toxicity	Benalaxyl is not considered harmful by single exposures. * The acute toxicity is measured as:
Route(s) of entry	- ingestion LD ₅₀ , oral, rat: 4200 mg/kg
	- skin LD ₅₀ , dermal, rat: > 5000 mg/kg
	- inhalation LC ₅₀ , inhalation, rat: not available
Skin corrosion/irritation	Not irritating to skin. *
Serious eye damage/irritation	Not irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...	Not a skin sensitizer. *
<u>Mancozeb</u>	
Toxicokinetics, metabolism and distribution	After oral intake, mancozeb is rapidly absorbed and widely distributed in the body. Highest concentration was found in the thyroid gland. It is extensively metabolised and rapidly excreted, almost completely within four days. There is no evidence of bioaccumulation.
Acute toxicity	The substance is not considered harmful by single exposure. * The acute toxicity is measured as:
Route(s) of entry	- ingestion LD ₅₀ , oral, rat: > 5000 mg/kg
	- skin LD ₅₀ , dermal, rat: > 2000 mg/kg
	- inhalation LC ₅₀ , inhalation, rat: > 5.14 mg/l/4 h
Skin corrosion/irritation	Not irritating to skin. *
Serious eye damage/irritation	Slightly irritating to eyes. *

Product code	6522	Page 10 of 13
Product name	Galben M	July 2019

Respiratory or skin sensitisation ... Skin sensitizer.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. **Toxicity** The product is very toxic to fish and aquatic invertebrates. It is considered less toxic to algae. It is considered as non-toxic to soil micro- and macroorganisms, birds and insects.

The ecotoxicity of the product is measured as:

- Fish	Rainbow trout (<i>Oncorhynchus mykiss</i>)	96-h LC ₅₀ : 0.81 mg/l 21-day NOEC: 0.12 mg/l
- Invertebrates	Daphnids (<i>Daphnia magna</i>)	48-h EC ₅₀ : 0.26 mg/l 23-day NOEC: 0.0332 mg/l
- Algae	Green algae (<i>Selenastrum capricornutum</i>)	72-h E _r C ₅₀ : 10.6 mg/l 72-h NOEC: 2.0 mg/l
- Birds	Quail (<i>Coturnix coturnix</i>)	LD ₅₀ : > 5000 mg/kg
- Insects	Honey bee (<i>Apis mellifera</i>)	72-h LD ₅₀ : > 255 µg/bee

- 12.2. **Persistence and degradability** **Benalaxyl** is not readily biodegradable in the environment, but it is degraded slowly. Primary degradation half-lives vary with circumstances, but are usually a few to several months in aerobic soil and water.

Mancozeb is readily biodegradable. It is degraded within one day in aerobic soil.

The product contains minor amounts of not readily biodegradable ingredients which may not be degradable in waste water treatment plants.

- 12.3. **Bioaccumulative potential** See section 9 for octanol-water partition coefficients.

Benalaxyl may have a potential to bioaccumulate if continuous exposure is maintained.

Bioaccumulation of **mancozeb** is not expected.

- 12.4. **Mobility in soil** **Benalaxyl** is not mobile in soil. Under normal conditions **mancozeb** is of moderate mobility in soil, but is not stable.

- 12.5. **Results of PBT and vPvB assessment** None of the ingredients meets the criteria for being PBT or vPvB.

- 12.6. **Other adverse effects** Other relevant hazardous effects in the environment are not known.

Product code	6522	Page 11 of 13
Product name	Galben M	July 2019

♣ SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. **Waste treatment methods** Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste.
- Disposal of waste and packagings must always be in accordance with all applicable local regulations.
- Disposal of product According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not possible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.
- Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
- Disposal of packaging It is recommended to consider possible ways of disposal in the following order:
1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
 3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
 4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill, containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

SECTION 14: TRANSPORT INFORMATION

ADR/RID/IMDG/IATA/ICAO classification

- 14.1. **UN number** 3077
- 14.2. **UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (mancozeb, benalaxyl)
- 14.3. **Transport hazard class(es)** 9
- 14.4. **Packing group** III
- 14.5. **Environmental hazards** Marine pollutant
- 14.6. **Special precautions for user** Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.

Product code	6522	Page 12 of 13
Product name	Galben M	July 2019

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

The product should not be transported in bulk by ship.

♣ SECTION 15: REGULATORY INFORMATION

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

Seveso category (Dir. 2012/18/EU): dangerous for the environment.

The employer shall assess any risks to the safety or health and any possible effect on the pregnancies or breastfeeding of workers and decide what measures should be taken (Dir. 92/85/EEC).

Young people under the age of 18 are not allowed to work with the substance.

All ingredients are covered by EU chemical legislation.

15.2. Chemical safety assessment

A chemical safety assessment is not required to be included for this product.

♣ SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet

Minor corrections only.

List of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
AOEL	Acceptable Operator Exposure Level
CAS	Chemical Abstracts Service
Dir.	Directive
DNEL	Derived No Effect Level
EC	European Community
EC ₅₀	50% Effect Concentration
E _r C ₅₀	50% Effect Concentration based on growth
EFSA	European Food Safety Authority
EINECS	European INventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013
HSE	Health & Safety Executive, UK
IBC	International Bulk Chemical code
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	50% Lethal Concentration
LD ₅₀	50% Lethal Dose
MAK	Maximale Arbeitsplatz-Konzentration
MARPOL	Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Cooperation and Development

Product code	6522	Page 13 of 13
Product name	Galben M	July 2019

OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative, Toxic
PEL	Personal Exposure Limit
PNEC	Predicted No Effect Concentration
Reg.	Regulation
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value
vPvB	very Persistent, very Bioaccumulative
WEL	Workplace Exposure Limit
WHO	World Health Organisation

References Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Method for classification Sensitisation – skin: test data
 Toxic to reproduction: calculation rules
 Hazards to the aquatic environment: test data

Used hazard statements 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 of use.

Advice on training This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Agricultural Solutions A/S / GHB