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CVR No. DK 12 76 00 43

SAFETY DATA SHEET

Galben C 69 WP

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 C 69 WP
Contains copper oxychloride

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**

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SDS.Ronland@fmc.com

1.4. **Emergency telephone number**

Medical emergencies:

Austria: +43 1 406 43 43
Belgium: +32 70 245 245
Bulgaria: +359 2 9154 409
Cyprus: 1401
Czech Republic: +420 224 919 293
+420 224 915 402
Denmark: +45 82 12 12 12
England and Wales: 111
Estonia: +372 7943500
Finland: +358 9 471 977
France: +33 (0) 1 45 42 59 59
Greece: 30 210 77 93 777
Hungary: +36 80 20 11 99
Ireland (Republic): +353 1 837 9964
Italy: +39 02 6610 1029
Latvia: +371 670 42 473
112
Lithuania: +370 523 62052
+370 687 53378
Luxembourg: +352 8002 5500
Netherlands: +31 30 274 88 88
Norway: +47 22 591300
Poland: +48 22 619 66 54
+48 22 619 08 97
Portugal: 800 250 250 (in Portugal only)
+351 21 330 3284
Romania: +40 21318 3606
Scotland: +8454 24 24 24
Slovakia: +421 2 54 77 4 166
Slovenia: +386 41 650 500
South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.)
Spain: +34 91 562 04 20
Sweden: +46 08-331231
112
Switzerland: 145
Turkey: 114
U.S.A. & Canada: +1 800 / 331 3148
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)

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SECTION 2: HAZARDS IDENTIFICATION

2.1. **Classification of the substance or mixture**

Acute oral toxicity: Category 4 (H302)
Hazards to the aquatic environment, acute: Category 1 (H400)
chronic: Category 1 (H410)

WHO classification ..... Class II, moderately hazardous

Health hazards ..... The product may be harmful by ingestion.

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 C 69 WP
Contains copper oxychloride

Hazard pictograms (GHS07, GHS09)

Signal word ..... Warning

Hazard statements
H302 ..... Harmful if swallowed.
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
P264 ..... Wash hands thoroughly after handling.
P270 ..... Do not eat, drink or smoke when using this product.
P301+P312 ..... IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P330..... Rinse mouth.
P391 ..... Collect spillage.
P501 ..... Dispose of contents and 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

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

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Active ingredients

Benalaxyl ..... Content: 11% 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)

Copper oxychloride ..... Content: 61% w/w
CAS name ..... Copper chloride oxide, hydrate
CAS no. 1332-40-7
IUPAC name(s) ..... Dicopper chloride trihydroxide
ISO name/EU name ..... Copper oxychloride
EC no. (EINECS no.) ..... None
EU index no. ..... None
Molecular weight ..... 213.6 or 427.2
Classification of the ingredient ..... Acute oral toxicity: Category 4 (H302)
Acute inhalation toxicity: Category 4 (H332)
Hazards to the aquatic environment, acute: Category 1 (H400)
chronic: Category 1 (H410)

Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Kaolin	11	1332-58-7	310-194-1	Not classified
2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt	max. 4	37199-81-8	None	Eye Irrit. 2 (H319)

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

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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 hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide and various chlorinated organic compounds
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. Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area.

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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.

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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 other ingredient in this product than kaolin.

		Year	
Kaolin	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
The EFSA has established an AOEL of 0.06 mg/kg bw/day

PNEC, aquatic environment ..... 0.01 µg/l

Copper oxychloride

DNEL ..... Not established
The EFSA has established an AOEL of 0.073 mg/kg bw/day

PNEC, aquatic environment ..... 13 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

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of a closed system is not possible, or when it is necessary to open the 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 or nitrile rubber. 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	Solid
Odour	Not determined
Odour threshold	Not determined
pH	Not determined
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

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Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	Not available	
Solubility(ies)	Not determined	
Partition coefficient n-octanol/water	**Benalaxyl**	: log K_{ow} = 3.54 at 20°C and pH 6
	Copper oxychloride	: not measurable because of low solubility
Autoignition temperature	Not determined	
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.

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.

Product

Acute toxicity		The product may be harmful by ingestion. The acute toxicity is estimated as:
Route(s) of entry	- ingestion	LD_{50}, oral, rat: 1000 - 2000 mg/kg
	- skin	LD_{50}, dermal, rat: > 2000 mg/kg *
	- inhalation	LC_{50}, inhalation, rat: > 5 mg/l/4 h *
Skin corrosion/irritation		Not expected to be irritating to skin. *
Serious eye damage/irritation		Not expected to be irritating to eyes. *
Respiratory or skin sensitisation ...		Not expected to cause skin sensitisation. *
Germ cell mutagenicity		The product contains no ingredients known to be mutagenic. *

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Carcinogenicity	The product contains no ingredients known to be carcinogenic. *
Reproductive toxicity	The product contains no ingredients found to have adverse effects on reproduction. *
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 copper oxychloride (measured on a similar compound): Target organ: blood NOEL: 1680 ppm (28 mg/kg bw/day) in a 90-day rat study based on haematological changes. *
Aspiration hazard	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	Not known.

Benalaxyl

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. *

Copper oxychloride

Toxicokinetics, metabolism and distribution	Absorption is dependent on diet. After absorption, the substance is mainly distributed to the liver. Metabolism does not occur. Excretion is rapid, via the bile. Accumulation does not occur, except in cases of disease.
Acute toxicity	The substance may be harmful by ingestion or inhalation, but is not considered harmful by dermal contact. The acute toxicity is measured as:
Route(s) of entry - ingestion	LD_{50}, oral, rat (male): 1083 - 1796 mg/kg (method OECD 401)

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		LD_{50}, oral, rat (female): 950 - 2006 mg/kg
	- skin	LD_{50}, dermal, rat: > 2000 mg/kg (method OECD 402) *
	- inhalation	LC_{50}, inhalation, rat: 4.74 mg/l/4 h (method OECD 403)
Skin corrosion/irritation		May be slightly irritating to skin (method OECD 404). *
Serious eye damage/irritation		May be moderately irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...		Not a skin sensitizer (method OECD 406). *

2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt

Acute toxicity		The substance is not considered harmful by single exposure. *
Route(s) of entry	- ingestion	LD_{50}, oral, rat: not available
	- skin	LD_{50}, dermal, rat: not available
	- inhalation	LC_{50}, inhalation, rat: not available
Skin corrosion/irritation		May be mildly irritating to skin. *
Serious eye damage/irritation		Irritating to eyes.
STOT – single exposure		May be mildly irritating to airways. *

SECTION 12: ECOLOGICAL INFORMATION

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

The measured ecotoxicity of the active ingredient **copper oxychloride** is measured as:

- Fish	Rainbow trout (*Oncorhynchus mykiss*)	96-h LC_{50}: above solubility limit
- Invertebrates	Daphnids (*Daphnia magna*)	48-h EC_{50}: 0.29 mg Cu/l 21-day NOEC: 0.019 mg Cu/l
- Algae	Green algae (*Pseudokirchneriella subcapitata*) ...	72-h EC_{50}: above solubility limit
- Birds	Bobwhite quail (*Colinus virginianus*)	LD_{50}: 511 mg Cu/kg
- Insects	Honey bees (*Apis mellifera*)	48-h LD_{50}, oral: 18.1 µg Cu/bee 48-h LD_{50}, contact: 109.9 µg Cu/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.

Copper oxychloride is not degradable.

The product contains minor amounts of not readily biodegradable

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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 **copper oxychloride** is not expected.

12.4. **Mobility in soil** ..... **Benalaxyl** is not mobile in soil. Under normal conditions **copper oxychloride** is weakly mobile in soil.

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.

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.

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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. (copper oxychloride, 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.

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.

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
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

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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 Arbeitspaltz-Konzentration
MARPOL	Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Cooperation and Development
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
WP	Wettable Powder

References ..... Data on ingredients are available from published literature and can be found several places.

Method for classification ..... Calculation rules

Used hazard statements .....

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very 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.

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