



FMC Agricultural Solutions A/S
Thyborønvej 78
DK-7673 Harbøre
Denmark
+45 9690 9690
www.fmc.com
CVR No. DK 12 76 00 43

Product code	–	Page 1 of 15
Product name	Fungiben	July 2021
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes July 2019

SAFETY DATA SHEET

Fungiben

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** **Fungiben**
Contains myclobutanil and hydrocarbons, C10-C13, aromatics, < 1% naphthalene
- 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
DK-7673 Harbøre
Denmark
SDS.Ronland@fmc.com
- 1.4. **Emergency telephone number** For leak, fire, spill or accident emergencies, call:
Denmark: 45-69918573 (CHEMTREC)
- Medical emergency:
Denmark: +45 82 12 12 12

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♣ SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Eye irritation: Category 2 (H319)
 Toxic to reproduction: Category 2 (H361d)
 Aspiration toxicity: Category 1 (H304)
 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 may cause eye irritation.

Environmental hazards The product is very toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Fungiben
 Contains myclobutanil and hydrocarbons, C10-C13, aromatics, < 1% naphthalene

Hazard pictograms (GHS07, GHS08, GHS09)



Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.
 H319 Causes serious eye irritation.
 H361d Suspected of damaging the unborn child.
 H410 Very toxic to aquatic life with long lasting effects.

Supplementary hazard statements

EUH066 Repeated exposure may cause skin dryness and cracking.
 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.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves, protective clothing and eye protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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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

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

Active ingredient

Myclobutanil Content: 13% w/w
 CAS name 1H-1,2,4-Triazole-1-propanenitrile, α -butyl- α -(chlorophenyl)-
 CAS no. 88671-89-0
 IUPAC name(s) 2-((1H-1,2,4-Triazol-1-yl)ethyl)-2-(4-chlorophenyl)hexanitrile
 ISO name/EU name Myclobutanil
 EC no. (EINECS no.) None
 EU index no. 613-134-00-5
 Molecular weight 288.77
 Classification of the ingredient Acute oral toxicity: Category 4 (H302)
 Eye irritation: Category 2 (H319)
 Toxic to reproduction: Category 2 (H361d)
 Hazards to the aquatic environment, chronic: Category 2 (H411)

Reportable ingredients

	Content (% w/w)	CAS no.	EC no.	Classification
Hydrocarbons, C10-C13, aromatics, < 1% naphthalene Reg. no. 01-2119451097-39	20 - 40		922-153-0	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)
Cyclohexanone Reg. no. 01-2119453616-35	25	108-94-1	EINECS no.: 203-631-1	Flam. Liq. 3 (H226) Acute Tox. 4 (H332)
Calcium dodecylbenzenesulphonate	1.5	26264-06-2	EINECS no.: 247-557-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) 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.

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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.
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	Primarily irritation.
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. The product contains petroleum distillates which may pose an aspiration pneumonia hazard.

♣ 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, hydrogen chloride, carbon sulphide, sulphur dioxide, carbon monoxide, carbon dioxide and various chlorinated organic compounds. Hydrogen cyanide can be formed.
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.
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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. Remove sources of ignition. Avoid and reduce mist formation as much as possible.

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 be absorbed onto an absorptive material such as universal binder, Fuller's earth, bentonite or other absorbent clay. Collect the contaminated absorbent in suitable containers. Clean area with soda lye and much water. Absorb wash liquid with absorbent and transfer to 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.

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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.

Inhalation of vapours of the product can cause lowered consciousness, which increases the risks of operating machinery and driving.

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.

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 the active ingredient in this product.

Aromatic hydrocarbons 100 ppm total hydrocarbon is recommended.

		Year	
Cyclo-hexanone	ACGIH (USA) TLV	2015	TWA 20 ppm STEL 50 ppm Skin notation; BEI
		2015	TWA 50 ppm (200 mg/m ³)
		2017	8-hr TWA 10 ppm (40.8 mg/m ³) Peak level 20 ppm (81.6 mg/m ³); max. duration 15 min. Skin notation
	Germany, MAK HSE (UK) WEL	2014	Skin notation; EKA
		2011	8-hr TWA 10 ppm (41 mg/m ³) STEL 20 ppm (82 mg/m ³); 15-minute reference period Skin notation; BMGV

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

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Myclobutanil

DNEL	Not established
PNEC, aquatic environment	The EFSA has established an AOEL of 0.03 mg/kg bw/day 4 µg/l

Aromatic hydrocarbons

DNEL, dermal	12.5 mg/kg bw/day
DNEL, inhalation	151 mg/m ³
PNEC, aquatic environment	Not applicable

Cyclohexanone

DNEL, dermal	10 mg/kg bw/day
DNEL, inhalation	100 mg/m ³
PNEC, aquatic	0.0329 mg/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 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. Generally, however, the use of protective gloves will give only partial protection against dermal exposure. Small tears in the gloves and cross-contamination can easily occur. It is recommended to limit the work to be done manually and to change the gloves immediately if there is a suspicion of contamination. Wash hands with water and soap immediately after work is finished.



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.

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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	Brown liquid, clear
Odour	Of aromatic hydrocarbons
Odour threshold	Not determined
pH	5.71 at 20°C
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	68°C
Evaporation rate	(Butyl acetate = 1)
	Aromatic hydrocarbons : < 0.01
	Cyclohexanone : 0.3
Flammability (solid/gas)	Not applicable (liquid)
Upper/lower flammability or explosive limits	Aromatic hydrocarbons : 0.6 - 7.0 vol% (≈ 0.6 - 7.0 kPa)
	Cyclohexanone : 1 - 9.4 vol% (≈ 1 - 9.4 kPa)
Vapour pressure	Myclobutanil : 1.98 x 10 ⁻⁴ Pa at 20°C
	Aromatic hydrocarbons : < 0.1 kPa at 25°C
	Cyclohexanone : 0.47 kPa at 20°C
Vapour density	(Air = 1)
	Aromatic hydrocarbons : > 1
	Cyclohexanone : 3.4
Relative density	1.009 at 20°C
Solubility(ies)	Solubility of myclobutanil at 20°C in:
	n-heptane 1.02 g/l
	acetone > 250 g/l
	water 132 mg/l
Partition coefficient n-octanol/water	Myclobutanil : log K _{ow} = 2.56 at 22°C
	Aromatic hydrocarbons : some of the main components have log K _{ow} = 4.0 - 4.4 at 25°C by model calculation
	Cyclohexanone : log K _{ow} = 0.86 at 25°C
Autoignition temperature	470°C
Decomposition temperature	Not determined
Viscosity	12.52 mm ² /s at 20°C
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.
- Product*
- Acute toxicity The product is not considered as harmful by single exposures. * The acute toxicity is measured as:
- Route(s) of entry - ingestion LD₅₀, oral, rat: > 5000 mg/kg
- skin LD₅₀, dermal, rat: > 5000 mg/kg
- inhalation LC₅₀, inhalation, rat: > 5.365 mg/l/4 h
- Skin corrosion/irritation Not irritating to skin. * May cause dry skin.
- Serious eye damage/irritation Irritating to eyes.
- Respiratory or skin sensitisation ... Did not 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. *
- Reproductive toxicity The product contains myclobutanil, 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 myclobutanil:
 Target organs: liver and kidneys
 NOAEL 1000 ppm (51.5 mg/kg bw/day) in a 90-day rat study based on hepatocellular necrosis, increased number of small follicles in thyroid, increased vacuolation of adrenal cortex and kidney epithelial pigmentation (method similar to OECD 408). *
- Aspiration hazard The product presents an aspiration pneumonia hazard.

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Symptoms and effects, acute and delayed

Primarily irritation.

Myclobutanil

Toxicokinetics, metabolism and distribution

Myclobutanil is rapidly absorbed after ingestion and widely distributed in the body, primarily to liver and kidneys. It is extensively metabolised and rapidly excreted, almost completely within 48 hours.

Acute toxicity

The substance is harmful by ingestion, but is not considered as harmful by inhalation or skin contact. The acute toxicity is measured as:

Route(s) of entry - ingestion

LD₅₀, oral, rat (male): 1600 - 1750 mg/kg
 (method similar to OECD 401)

LD₅₀, oral, rat (female): 1800 - 2290 mg/kg

- skin

LD₅₀, dermal, rat: > 5000 mg/kg * (method similar to OECD 402)

- inhalation

LC₅₀, inhalation, rat: > 5.1 mg/l/4 h * (method OECD 403)

Skin corrosion/irritation

Not irritating to skin (method OECD 404). *

Serious eye damage/irritation

Irritating to eyes (method similar to OECD 405).

Respiratory or skin sensitisation ...

Not a skin sensitizer (method similar to OECD 406). *

Hydrocarbons, C10-C13, aromatics, < 1% naphthalene

Acute toxicity

The substance is not considered as harmful. * The acute toxicity is measured on a similar product is:

Route(s) of entry - ingestion

LD₅₀, oral, rat: > 5000 mg/kg (method OECD 401)

- skin

LD₅₀, dermal, rat: > 2000 mg/kg (method OECD 402)

- inhalation

LC₅₀, inhalation, rat: > 4.7 mg/l (method OECD 403)

Skin corrosion/irritation

Can cause skin dryness (measured on similar products; method OECD 404).

Serious eye damage/irritation

May cause mild, short-lasting discomfort to eyes (measured on similar products; method OECD 405). *

Respiratory or skin sensitisation ...

Not expected to cause respiratory or skin sensitisation (measured on similar products; method OECD 406). *

Aspiration hazard

Aromatic hydrocarbons present an aspiration hazard.

Cyclohexanone

Toxicokinetics, metabolism and distribution

After oral intake, cyclohexanone is readily absorbed and widely distributed in the body. It is extensively metabolised to natural body constituents and partially taken up in the organism.

Acute toxicity

Cyclohexanone is harmful by inhalation. It may have harmful effects

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		by ingestion and skin contact as well. Study results for inhalation toxicity are divergent. The acute toxicity is measured as:
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: 1820 mg/kg (average of 6 study results)
	- skin	LD ₅₀ , dermal, rabbit: 950 mg/kg (average of 5 study results)
	- inhalation	LC ₅₀ , inhalation, rat: 3 - 30 mg/l/4 h
Skin corrosion/irritation		Cyclohexanone has irritating properties to skin as has been found in several studies. It is not clear if the classification criteria are met.
Serious eye damage/irritation		Cyclohexanone has irritating properties to eyes as has been found in several studies. It is not clear if the classification criteria are met.
Respiratory or skin sensitisation ...		To our knowledge, no indications of allergenic effects have been reported. Negative results were found in a number of tests. *

Calcium dodecylbenzenesulphonate

Acute toxicity		The substance is not considered as harmful by skin contact, ingestion and inhalation. * The acute toxicity is measured as:
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: 4000 mg/kg
	- skin	LD ₅₀ , dermal, rat: not available
	- inhalation	LC ₅₀ , inhalation, rat: not available
Skin corrosion/irritation		Irritating to skin.
Serious eye damage/irritation		Irritating to eyes with the potential to cause permanent eye damage.

♣ SECTION 12: ECOLOGICAL INFORMATION

- 12.1. **Toxicity** The product is toxic to fish, aquatic invertebrates and 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 : 2.25 mg/l
- Invertebrates	Daphnids (<i>Daphnia magna</i>)	48-h EC ₅₀ : 6.32 mg/l
- Algae	Green algae (<i>Pseudokirchneriella subcapitata</i>) ...	E _r C ₅₀ : 8.75 mg/l
- Birds	Bobwhite quail (<i>Colinus virginianus</i>)	LD ₅₀ : 4080 mg/kg

- 12.2. **Persistence and degradability** **Myclobutanil** is not readily biodegradable. Primary degradation half-lives can be up to 20 months in aerobic soil depending on circumstances.

Aromatic hydrocarbons are readily biodegradable as measured according to OECD guidelines. However, they are not always rapidly degraded in the environment, but are expected to be degraded at a moderate rate, depending on circumstances.

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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.

Bioaccumulation of **myclobutanil** is not expected.

Aromatic hydrocarbons have a potential to bioaccumulate if continuous exposure is maintained. Most components can be metabolised by many organisms. Bioaccumulation factors (BCFs) of some of the main components are 1200 - 3200 by model calculation.

12.4. Mobility in soil

Myclobutanil is not mobile in soil.

Aromatic hydrocarbons are not mobile in the environment, but are volatile and will evaporate to the air if released onto water or on the surface of soil. They float and can migrate to sediment.

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.

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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** 3082
- 14.2. **UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (myclobutanil, alkyl(C3-C6)benzenes)
- 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 is not 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 Numerous changes have been made to adapt the format of the safety data sheet, but these do not involve new information on hazardous properties.
- List of abbreviations ACGIH American Conference of Governmental Industrial Hygienists

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AOEL	Acceptable Operator Exposure Level
BEI	Biological Exposure Index
BMGV	Biological Monitoring Guidance Value
CAS	Chemical Abstracts Service
Dir.	Directive
DNEL	Derived No Effect Level
EC	European Community
EC ₅₀	50% Effect Concentration
ErC ₅₀	50% Effect Concentration based on growth
EFSA	European Food Safety Authority
EINECS	European INventory of Existing Commercial Chemical Substances
EKA	Expositionsäquivalent für Krebserzeugende Arbeitsstoffe
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
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.	Registration, or Regulation
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value
TWA	Time Weighted Average
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	Eye irritation: test data Toxic to reproduction: calculation rules Aspiration toxicity: calculation rules Hazards to the aquatic environment: determined by regulatory authorities
Used hazard statements	H226 Flammable liquid and vapour. H302 Harmful if swallowed.



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H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.
EUH066	Repeated exposure may cause skin dryness and cracking.
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 / JFC