

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	5810	Page 1 of 14
Product name	FLUAZINAM 500 g/l SC	
		January 2019
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes July 2017

# SAFETY DATA SHEET FLUAZINAM 500 g/I SC

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

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

## 1.4. 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 06 34 +48 22 619 08 97

+420 224 915 402 Portugal: 808 250 143 (in Portugal only)

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

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)



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#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1. Classification of the substance or

mixture

Sensitisation – skin: Category 1B (H317)
Toyic to reproduction: Category 2 (H361d)

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 .....

Fluazinam can cause allergic sensitisation and is suspected of causing

birth defects.

Environmental hazards .....

The product is very toxic to aquatic organisms.

#### 2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier ...... Fluazinam 500 g/l SC

Contains fluazinam and 1,2-benzisothiazol-3(2H)-one

Hazard pictograms (GHS07, GHS08, GHS09)







Signal word ...... Warning

Hazard statements

H317 ...... May cause an allergic skin reaction.
H361d ..... Suspected of damaging the unborn child.

Supplementary hazard statement

instructions of use.

Precautionary statements

P261 ...... Avoid breathing vapours.

or vPvB.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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



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3.2.	Mixtures	See section	n 16 for full text	of hazard stateme	ents.
	Active ingredient Fluazinam	2-Pyridina	8% by weight mine, 3-chloro-l		initro-4-(trifluoromethyl)-
	CAS no IUPAC name	79622-59- 3-Chloro-N 2,6-dinitro	6 N-(3-chloro-5-tri -p-toluidine	•	yridyl)-α,α,α-trifluoro-
	EC no. (EINECS no.) EU index no Classification of the ingredient		0-5 city, inhalation:	Category 4 (H332	2)
		Skin irritat Eye damag Sensitisatio Toxic to re Hazards to			
	Structural formula	CI F <sub>3</sub> C	NO <sub>2</sub> H NO <sub>2</sub> NO <sub>2</sub>	CF <sub>3</sub>	
	Reportable ingredients	Content (% w/w)	CAS no.	EC no.	Classification
	Sodium alkylnaphthalenesulphonate- formaldehyde condensate	2	577773-56-9	None	Eye Irrit. 2 (H319)
	Alcohols, C13-15, branched and linear, ethoxylated	1	157627-86-6	NLP no.: 500-337-8	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)
	1,2-Benzisothiazol-3(2H)-one	0.02	2634-33-5	EINECS no.: 220-120-9	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400)

# **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.



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	Skin contact	Clothing contaminated with material must be removed immediately and all skin washed thoroughly with water and soap. Get medical attention if irritation 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 persists.
	Ingestion	Let the exposed person rinse mouth and let him/her drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Never give anything by mouth to an unconscious person. Get medical attention immediately.
4.2.	Most important symptoms and effects, both acute and delayed	Irritation and allergic reactions. The symptoms of the allergic effect range from mildly itchy, papular rash to painful, weeping and blistering dermatitis.
4.3.	Indication of any immediate	Immediate medical attention is required in case of ingestion.
	medical attention and special treatment needed	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.
SECT	TION 5: FIRE-FIGHTING MEASURI	78

#### **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, toxic, irritant and inflammable compounds such as hydrogen fluoride, hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, sulphur dioxide and various fluorinated and 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



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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. Avoid and reduce vapour or mist formation as much as possible. Personal contact with the product must be avoided.

#### 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).

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and detergent. Absorb wash liquid onto 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 ....

Pregnant women should not work with this product.

In an industrial environment it is important 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



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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.

Keep all unprotected persons and children away from working area.

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.

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. Protect from strong sunlight and heat. Recommended storage temperature 5 -  $30^{\circ}$ C.

Store in tightly 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, personal exposure limits have not been established for fluazinam or any other ingredient in this product. An 8-hr TWA exposure limit of 0.7 mg/m³ is recommended by the manufacturer for fluazinam. However, other personal exposure limits defined by local regulations may exist and must be observed.



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	Д		, y
Fluazir	ıam		
DNEL		Not established	

 $0.53 \mu g/l$ 

8.2. Exposure controls .....

PNEC, aquatic .....

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.

EFSA has established an AOEL of 0.004 mg/kg bw/day

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.

If allergic reactions occur, it may be necessary to isolate the person from the product.



Respiratory protection

In the event of an accidental discharge of the material, 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 time of these materials for this 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 regularly. Before removing gloves, wash them with water and soap. Be careful not to touch anything with contaminated gloves.



Eye protection .......

Wear face shield rather than safety glasses. It is recommended to have an emergency eye wash fountain immediately available in the work area 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.



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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Information on physical and** chemical properties

Appearance ...... Light yellow to light red-brown liquid

Melting point/freezing point ........ Not determined ( $< 0^{\circ}$ C)

Initial boiling point and boiling range
No boiling point. The material dries out.
Above 103°C if any (Pensky-Martens closed cup)

Upper/lower flammability or

explosive limits ...... Not determined

Vapour pressure ...... Fluazinam :  $1.1 \times 10^{-3}$  Pa at  $20^{\circ}$ C

Solubility (ies) ...... Solubility of **fluazinam** at 20°C in:

acetone 1320 - 1430 g/l n-hexane 6.11 g/l

water 0.042 mg/l at pH 5

0.052 mg/l at pH 7 1.33 mg/l at pH 9

Partition coefficient n-octanol/water Fluazinam :  $\log K_{ow} = 3.56$  at 25°C

9.2. Other information

Miscibility ...... The product is miscible with water.

#### SECTION 10: STABILITY AND REACTIVITY

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.



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# SECTION 11: TOXICOLOGICAL INFORMATION

11.1.	Information on toxicological effects Product	* = Based on available data, the classification criteria are not met.
	Acute toxicity	The product is not considered harmful by single exposure. * The acute toxicity of the product is measured as:
	Route(s) of entry - ingestion	$LD_{50}$ , oral, rat: $> 2000 \text{ mg/kg}$ (method OECD 425)
	- skin	$LD_{50}$ , dermal, rat: $> 2000$ mg/kg (method OECD 402)
	- inhalation	$LC_{50}$ , inhalation, rat: > 3.56 mg/l/4 h (method OECD 403)
	Skin corrosion/irritation	Mildly irritating to rabbit skin (method OECD 404). *
	Serious eye damage/irritation	Mildly irritating to rabbit eyes (method OECD 405). *
	Respiratory or skin sensitisation	The product is an allergic sensitizer (method OECD 429).
	Germ cell mutagenicity	The product contains no ingredients known to be mutagenic. *
	Carcinogenicity	The product contains no ingredients known to be carcinogenic. *
	Reproductive toxicity	In teratology studies on fluazinam in rats and rabbits (method US-EPA 83-3), increased incidences of fetal abnormalities were observed, such as a.o. placental abnormalities, fused or incompletely ossified sternebrae, abnormalities of the head bones, not developed renal papillae and distended ureter(s).
	STOT single exposure	No specific effects other than already mentioned are expected following single exposure. *
	STOT repeated exposure	The following has been measured on the active ingredient fluazinam: Target organ: liver LOAEL: 500 ppm (41 mg/kg bw/day) in a 90-day rat study. At this dose level decreased body weight and increased liver weight were seen. *
	Aspiration hazard	The product does not present an aspiration pneumonia hazard. *
	Symptoms and effects, acute and delayed	Irritation and allergic reactions. The symptoms of the allergic effect range from mildly itchy, papular rash to painful, weeping and blistering dermatitis. In animal tests, the main symptoms after oral intake were disturbance of respiration and decreased activity.
	<u>Fluazinam</u>	
	Toxicokinetics, metabolism and distribution	Fluazinam is only partially absorbed after oral intake and excreted within a few days. It is partially metabolised. Bioaccumulation is not likely. Fluazinam and its metabolites are found mainly in the blood.
	Acute toxicity	Fluazinam is harmful by inhalation. The acute toxicity is measured as:



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Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat: > 4100 mg/kg (method OECD 425) \*

- skin LD<sub>50</sub>, dermal, rat: > 2000 mg/kg (method OECD 402) \*

- inhalation LC<sub>50</sub>, inhalation, rat (male): 1.68 mg/l/4 h (method OECD 403)

Serious eye damage/irritation ...... Moderately irritating to eyes (method OECD 405).

Respiratory or skin sensitisation ... Sensitising (method OECD 429).

Sodium alkylnaphthalenesulphonate-formaldehyde condensate

Acute toxicity ...... The substance is not considered harmful by single exposure. \*

 $Route(s) \ of \ entry \qquad \ -ingestion \qquad LD_{50}, \ oral, \ rat: > 5000 \ mg/kg$ 

skin LD<sub>50</sub>, dermal: no data available
 inhalation LC<sub>50</sub>, inhalation: no data available

Serious eye damage/irritation ...... Irritating to eyes.

STOT – single exposure ............. Inhalation of dust can cause irritation of airways. According to

information from supplier the product is not classified.

Alcohols, C13-15, branched and linear, ethoxylated

Toxicokinetics, metabolism and Afte

distribution

After oral intake, alcohol ethoxylate is rapidly absorbed. It is partially

metabolised and rapidly excreted, within a few days.

Acute toxicity ...... The product is not considered as harmful by inhalation, ingestion or

skin contact. \* The acute toxicity is measured as:

Route(s) of entry - ingestion  $LD_{50}$ , oral, rat: > 2000 mg/kg

- skin  $LD_{50}$ , dermal, rat: not available - inhalation  $LC_{50}$ , inhalation, rat: not available

Serious eye damage/irritation ...... The product is irritating to eyes (method OECD 405).

1,2-Benzisothiazol-3(2H)-one

Acute toxicity ...... The substance is harmful by ingestion.

Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat (male): 670 mg/kg

LD<sub>50</sub>, oral, rat (female): 784 mg/kg

(method OPPTS 870.1100; measured on 73% solution)

- skin LD<sub>50</sub>, dermal, rat: > 2000 mg/kg \*

(method OPPTS 870.1200 measured on 73% solution)



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		- inhalation	LC <sub>50</sub> , inhalation: no data avail	lable
	Skin corrosion/irritation		Slightly irritating to skin (method OPPTS 870.2500).	
	Serious eye damage/irritation		Severely irritating to eyes (me	ethod OPPTS 870.2400).
	Respiratory or ski	n sensitisation		guinea pigs (method OPPTS 870.2600).
			The substance appears to be s	ignificantly more sensitising to humans.
SECT	TION 12: ECOLO	GICAL INFORMAT	ΓΙΟΝ	
12.1.	2.1. <b>Toxicity</b>		The product is very toxic to fish and other aquatic organisms. It is not considered as harmful to birds, insects and soil macro- and microorganisms. The ecotoxicity of the product is measured as:	
	- Fish	Rainbow trout (Onc	corhynchus mykiss)	96-h LC <sub>50</sub> : 0.16 mg/l
	- Invertebrates	Daphnids (Daphnia	magna)	48-h EC <sub>50</sub> : 0.23 mg/l
	- Algae	Green algae (Desmo	odesmus subspicatus)	96-h I <sub>r</sub> C <sub>50</sub> : 0.13 mg/l
	- Plants	Duckweed (Lemna	gibba)	7-day E <sub>r</sub> C <sub>50</sub> : 0.57 mg/l 7-day NOEC <sub>r</sub> : 0.094 mg/l
	- Birds	Japanese quail (Cota	urnix coturnix japonica)	$LD_{50}: > 2000 \text{ mg/kg}$
	- Earthworms	Eisenia foetida		14-day LC <sub>50</sub> : $> 1000$ mg/kg dry soil
	- Bees	Honeybee (Apis med	llifera)	$48$ -h $LD_{50}$ , contact: $> 100$ μg/bee $48$ -h $LD_{50}$ , oral: $> 100$ μg/bee
12.2.	12.2. Persistence and degradability		<b>Fluazinam</b> is biodegradable, but it does not meet the criteria for being readily biodegradable. It undergoes degradation in the environment and in waste water treatment plants.	
				s for fluazinam vary much with a few months in aerobic soil and water.
			The product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.	
12.3.	Bioaccumulative	potential	See section 9 for octanol-water	er partition coefficient.
			relatively rapidly. The biocon	tial to bioaccumulate, but is metabolised centration factor is measured to 500 - unfish, <i>Lepomis macrochirus</i> ).
12.4.	.4. Mobility in soil		Fluazinam has low mobility	in soil.
12.5.	Results of PBT a assessment		None of the ingredients meets	the criteria for being PBT or vPvB.
12.6.	Other adverse ef	fects	Other relevant hazardous effe	cts in the environment are not known.



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#### 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 feasible, 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** ..... 3082

14.2. UN proper shipping name ........ Environmentally hazardous substance, liquid, n.o.s. (fluazinam)

14.3. Transport hazard class(es) ........

14.4. Packing group ..... Ш

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.



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14.7. Transport in bulk according to Annex II of MARPOL 73/78 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).

The Young Worker Directive (94/33/EC) prohibits people under the age of 18 to work with this product.

All ingredients in the product 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.

CAS Chemical Abstracts Service

Dir. Directive

DNEL Derived No Effect Level EC European Community EC<sub>50</sub> 50% Effect Concentration

E<sub>r</sub>C<sub>50</sub> 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

IBC International Bulk Chemical code

I<sub>r</sub>C<sub>50</sub> Concentration for 50% inhibition of growth rate
 ISO International Organisation for Standardization
 IUPAC International Union of Pure and Applied Chemistry

LC<sub>50</sub> 50% Lethal Concentration

LD<sub>50</sub> 50% Lethal Dose

LOAEL Lowest Observed Adverse Effect Level

MARPOL Set of rules from the International Maritime Organisation

(IMO) for prevention of sea pollution

NLP No Longer Polymer

NOEC<sub>r</sub> No Observed Effect Concentration, growth rate

n.o.s. Not otherwise specified

OECD Organisation for Economic Cooperation and Development



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	OPPTS	Office of Prevention, Pesticides and Toxic Substances
	PBT	Persistent, Bioaccumulative, Toxic
	PNEC	Predicted No Effect Concentration
	Reg.	Registration or
		Regulation
	SC	Suspension Concentrate
	STOT	Specific Target Organ Toxicity
	TWA	Time Weighted Average
	US-EPA	Environmental Protection Agency USA
	vPvB	very Persistent, very Bioaccumulative
	WHO	World Health Organisation
References		sured on the product are unpublished company data. Data on ts are available from published literature and can be found aces.
Method for classification	Sensitisat	ion – skin: test data.
	Toxic to 1	reproduction: calculation rules.
	Hazards t	o the aquatic environment: test data
Used hazard statements	H302	Harmful if swallowed.
	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.
	H412	Harmful 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		erial should only be used by persons who are made aware of
		ous properties and have been instructed in the required
	safety pre	ecautions.

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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