SAFETY DATA SHEET

ZIGNAL 500 SC

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008

CHEMICAL NOTIFICATION = YES



SDS #: FO002228-FI-A

Revision date: 2020-06-12 Format: EU

Version 2.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Code(s) FO002228-FI-A

Product Name ZIGNAL 500 SC

Registration number 3275

Synonyms Fluatsinami 500 g/L SC

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

Recommended Use: Can be used as fungicide only,

Industry Code (TOL): A011 crop production, horticulture Intended use code (KT): 38 plant protection products

The chemical can be used for general consumption: Not applicable

User group: Professional users

Restrictions on Use: Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

Supplier CHEMINOVA A/S, a subsidiary of FMC Corporation

Thyborønvej 78 DK-7673 Harboøre Denmark +45 9690 9690

Business Tax ID (Y-tunnus) = DK 12760043

SDS.Ronland@fmc.com

For further information, please contact:

Contact point (+45) 97 83 53 53 (24 h; for emergencies only)

1.4. Emergency telephone number

Emergency telephone In the event of an accident, call the general emergency number: 112

HUCH Poison Information Center 24h tel. 0800 147 111 or 09 471 977

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

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Skin sensitization	Category 1B (H317)
Reproductive toxicity	Category 2 (H361d)
Acute aquatic toxicity	Category 1 (H400)
Chronic aquatic toxicity	Category 1 (H410)

2.2. Label elements





Hazard Designation

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

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

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Use required personal protective equipment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P391 - Collect spillage

P405 - Store locked up

P501 - Surplus, unusable plant protection product is taken to a hazardous waste collection point and emptied, rinsed sales packaging is taken to an appropriate waste disposal point.

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 Mixture containing the following hazardous ingredients:

Chemical name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Fluazinam	616-712-5	79622-59-6	38	Acute Tox. 4 (H332) Skin irrit.: Category 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Sodium alkylnapthalenesulpho nate-formaldehyde condensate	-	577773-56-9	2	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Alcohols, C13-15 Branched and Linear, Ethoxylated	NLP no. 500-337-8	157627-86-6	1	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400)	No data available
1,2	220-120-9	2634-33-5	0.02	Skin Irrit. 2 (H315)	No data available

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benzisothiazolin-3-one		Eye Dam. 1 (H318)	
		Skin Sens. 1 (H317)	
		Acute Tox. 4 (H302)	
		Aquatic Acute 1 (H400)	
		, , ,	

Additional Information

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16 Contains 1,2-Benzisothiazolin-3-one (CAS number 2634-33-5) at a level below the concentration limit for classification of the mixture as sensitising.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

control center or doctor for further treatment advice.

Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for further treatment advice.

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.

Ingestion Rinse mouth with water and afterwards drink plenty of water or milk. Do NOT induce

vomiting. If vomiting does occur, rinse mouth and drink fluids again. Never give anything by

mouth to an unconscious person. Immediate medical attention is required.

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

Most important symptoms and effects, both acute and delayed

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 medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary

After ingestion, the main symptoms are passivity, impaired mobility, and shortness of breath.

Show this material safety data sheet to the doctor in attendance.

There is no specific antidote against this substance. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment is supportive and

symptomatic as for a general chemical.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire Dry chemical, Carbon dioxide (CO₂).

Large Fire Water spray, Foam.

Unsuitable extinguishing media

Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture

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Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products

Hydrogen fluoride, Hydrogen chloride, Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO₂), Sulfur oxides, various chlorinated and fluorinated organic compounds.

5.3. Advice for firefighters

Cool containers / tanks with water spray. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Dike to prevent runoff. As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 1 tonnes of the product or more):

- 1. use personal protection equipment (see Section 8)
- 2. call emergency telephone number in 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.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

For emergency responders

Use personal protection recommended in Section 8.

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 material for containment and cleaning up

Methods for Containment

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping.

Nearby surface water drains should be covered. 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 detergent and water. Do not let wash liquid enter drains or waterways. Absorb wash liquid with an 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 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.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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Handling

Pregnant women should not work with this product.

It is recommended to handle the material 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.

Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. Use personal protective equipment. 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.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage

The product is stable under normal conditions of warehouse storage. Protect from frost, heat and sunlight. Store at 5 - 30°C.

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)

Specific 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.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

An 8-hr TWA exposure limit of 0.7 mg/m³ is recommended by the manufacturer for fluazinam.

Derived No Effect Level (DNEL) 0.004 mg/kg bw/day (fluazinam).

Predicted No Effect Concentration 0.

(PNEC)

0.53 ug/L (fluazinam).

8.2. Exposure controls

Engineering measures 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.

Personal protective equipment

Eye/Face Protection Wear face mask rather than goggles or safety glasses. The possibility of eye contact should

be excluded. The work area and storage formulation area must have emergency eyewash

and showers.

Hand Protection Wear long chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

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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 frequently. Be careful not to touch anything with contaminated gloves. Used gloves should be thrown out and not be reused.

Skin and Body 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 appreciable or prolonged exposure,

coveralls of barrier laminate may be required.

Respiratory Protection The product does not automatically present an airborne exposure concern during normal

handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment

with a universal filter type including particle filter.

authorities should be advised if significant spillages cannot be contained.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid Appearance Liquid

Odor almost odorless

Color Light yellow to Pale red-brown Odor threshold No information available

pH 7.5 - 8.3

Melting point/freezing pointNo information availableBoiling Point/RangeDecomposes upon heating

Flash point > 103 °C / (Pensky-Martens closed cup)

Evaporation Rate No information available

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available

Vapor pressure Fluazinam : 1.1 x 10⁻³ Pa @ 20°C

Vapor density No information available

Specific gravity 1.28 @ 20°C

Water solubility Fluazinams löslighet vid 20 °C:

0.042 mg/L @ pH 50.052 mg/L @ pH 71.33 mg/L @ pH 9

Solubility in other solvents No information available

Partition coefficient Fluazinam : log Kow = 3.56 @ 25°C

Autoignition temperature >400 °C

Decomposition temperature No information available

Viscosity, kinematic 1400 - 1800 mPa.s, beroende på skjuvhastighet

Viscosity, dynamic No information available

Explosive propertiesOxidizing properties
Not explosive
Non-oxidizing

9.2. Other information

Softening point

Molecular weight

VOC content (%)

No information available
No information available
No information available

Relative density 1.28 @ 20°C

Bulk density

No information available

No information available

Section 10: STABILITY AND REACTIVITY

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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.

Explosion data

Sensitivity to Mechanical Impact No information available. **Sensitivity to Static Discharge** No information available.

10.3. Possibility of hazardous reactions

Hazardous polymerization

Hazardous polymerization does not occur.

Hazardous reactions

None known.

10.4. Conditions to avoid

Heating can release hazardous gases.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

See Section 5.2 for more information.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

 LD50 Oral
 > 2000 mg/kg (rat) (Method OECD 425)

 LD50 Dermal
 > 2000 mg/kg (rat) (Method: OECD 402)

 LC50 Inhalation (dust)
 > 3.56 mg/L 4 hr (rat) (Method: OECD 403)

Skin corrosion/irritation

Serious eye damage/eye irritation

Sensitization

Mildly irritating (rabbit). (Method: OECD 404). Mildly irritating (rabbit). (Method: OECD 405).

Sensitizer (Method OECD 429)

MutagenicityThe product contains no ingredients known to be mutagenic.CarcinogenicityThe 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 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 after single exposure have been observed.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. See listed target

organs below.

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Target organ effects

Symptoms

Liver.

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.

Aspiration hazard

The product does not present an aspiration pneumonia hazard.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

The ecotoxicity of the product is measured as:

Kalat: Kirjolohi (Oncorhynchus mykiss) = 96-h LC₅₀: 0.16 mg/L

Selkärangattomat: Vesikirput (Daphnia magna) = 48-h EC50: 0.23 mg/L

Levät: Viherlevä (Desmodesmus subspicatus) = 96-h IrC50: 0.13 mg/L

Kasvit: Limaska(Lemna gibba) = 7-day E rC50: 0.57 mg/L Kasvit: Limaska(Lemna gibba) = 7-day NOECr: 0.094 mg/L

Linnit: Japaninviiriäinen (Coturnix coturnix japonica) = LD50: > 2000 mg/kg

Kastemadot: Eisenia foetida, 14-day LC50: > 1000 mg/kg dry soil

Mesipistiäiset: Mehiläiset (Apis mellifera) = 48-h LD₅₀, contact: > 100 ug/bee Mesipistiäiset: Mehiläiset (Apis mellifera) = 48-h LD₅₀, oral: > 100 ug/bee

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Fluazinam (79622-59-6)				
Active Ingredient(s)	Duration	Species	Value	Units
Fluazinam	96 h LC50	Onchorhyncus mykiss	110	μg/L
	48 h LC50	Daphnia magna	190	μg/L
	7-Day EC50	Lemna gibba (duckweed)	>200	μg/L
	28-day NOEC	Onchorhyncus mykiss	12	μg/L
	21 d NOEC	Daphnia magna	>12.5	μg/L

12.2. Persistence and degradability

Fluazinam 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. Primary degradation half-lives for fluazinam vary much with circumstances, but are usually a few months in aerobic soil and water.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

Mobility in soil

Low mobility in soil.

12.5. Results of PBT and vPvB assessment

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None of the ingredients in the product meets the criteria for being PBT or vPvB.

12.6. Other adverse effects

None known

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Residual waste

Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste. Disposal of waste and packaging must always be in accordance with all applicable local regulations.

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.

Contaminated containers and packages

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.
- 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

IMDG/IMO

14.1 UN/ID no UN3082

14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (fluatsinami) (fluatsinami)

14.3 Hazard class914.4 Packing GroupIII14.5 Environmental HazardsYes

Environmental Hazard Marine Pollutant

14.6 Special ProvisionsAvoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment.

14.7 Transport in bulk according to The product is not transported in bulk by ship.

Annex II of MARPOL 73/78 and the

IBC Code

<u>RID</u>

14.1 UN/ID no UN3082

14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(fluazinam) (fluazinam)

14.3 Hazard class 9
14.4 Packing Group III

14.5 Environmental Hazard Marine Pollutant

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14.6 Special ProvisionsAvoid any unnecessary contact with the product. Misuse can result in damage to health. Do

not release to the environment.

ADR/RID

14.1 UN/ID no UN3082

14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(fluazinam) (fluazinam)

14.3 Hazard class 9
14.4 Packing Group III

14.5 Environmental Hazard Marine Pollutant

14.6 Special ProvisionsAvoid any unnecessary contact with the product. Misuse can result in damage to health. Do

not discharge to the environment.

ICAO/IATA

14.1 UN/ID no UN3082

14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(fluazinam) (fluazinam)

14.3 Hazard class 9 **14.4 Packing Group** III

14.5 Environmental Hazard Marine Pollutant

14.6 Special ProvisionsAvoid any unnecessary contact with the product. Misuse can result in damage to health. Do

not release to the environment.

Section 15: REGULATORY INFORMATION

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

National regulations Seveso category in Annex I to Dir. 2012/18/EU: dangerous for the environment.

The substance is covered by EU chemical legislation.

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.

European Union

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Fluazinam			X			X		
79622-59-6								
Alcohols, C13-15 Branched	X	Х	X		X			

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and Linear, Ethoxylated 157627-86-6								
1,2 benzisothiazolin-3-one 2634-33-5	Х	Х	Х	Х	Х	X	Х	Х

15.2. Chemical safety assessment

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

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under sections 2 and 3

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 for use

<u>Legend</u>

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

DNEL: Derived No Effect Level (DNEL)

EINECS: EINECS (European Inventory of Existing Chemical Substances)

GHS: Globally Harmonized System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50: LC50 (lethal concentration)

LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

SVHC: Substances of Very High Concern for Authorization:

TWA: time weighted average

vPvB: very Persistent and very Bioaccumulative

Classification procedure

Sensitisation – skin: test data

Toxic to reproduction: calculation rules Hazards to the aquatic environment: test data

Key literature references and sources for data

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

Revision date: 2020-06-12

Reason for revision: Format Change.

Training Advice 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.

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FMC Corporation

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End of Safety Data Sheet