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Product name	<b>Stallion Sync Tec</b>	January 2020
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes March 20118

## SAFETY DATA SHEET

### Stallion Sync Tec

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** ..... **Stallion Sync Tec**
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against** ..... Can be used as herbicide 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](mailto:SDS.Ronland@fmc.com)
- 1.4. **Emergency telephone number**  
Medical emergencies:
- |                                     |   |
|-------------------------------------|---|
| Austria: +43 1 406 43 43            | Luxembourg: +352 8002 5500                                      |
| Belgium: +32 70 245 245             | Netherlands: +31 30 274 88 88                                   |
| Bulgaria: +359 2 9154 409           | Norway: +47 22 591300   |
| Cyprus: 1401                        | Poland: +48 22 619 66 54  |
| Czech Republic: +420 224 919 293    | +48 22 619 08 97  |
| +420 224 915 402                    | Portugal: 800 250 250 (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   |
| Ireland (Republic): +353 1 837 9964 | Sweden: +46 08-331231   |
| Italy: +39 02 6610 1029             | 112   |
| Latvia: +371 670 42 473             | Switzerland: 145  |
| 112                                 | Turkey: 114   |
| Lithuania: +370 523 62052           | U.S.A. & Canada: +1 800 / 331 3148                              |
| +370 687 53378                      | All other countries: +1 651 / 632 6793 (Collect)                |

For fire, leak, spill or other accident emergencies:

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

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## SECTION 2: HAZARDS IDENTIFICATION

- 2.1. **Classification of the substance or mixture**
- 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 ..... No serious hazards to health are expected.
- Environmental hazards ..... The product is very toxic to aquatic organisms.
- 2.2. **Label elements**
- According to EU Reg. 1272/2008 as amended*
- Product identifier ..... Stallion Sync Tec
- Hazard pictogram (GHS09) .....
- 
- Signal word ..... Warning
- Hazard statement
- H410 ..... Very toxic to aquatic life with long lasting effects.
- Supplementary hazard statements
- EUH208 ..... Contains pendimethalin and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
- EUH401 ..... To avoid risks to human health and the environment, comply with the instructions of use.
- Precautionary statements
- P273 ..... Avoid release to the environment.
- 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.
- Active ingredients*
- Pendimethalin** ..... Content: 31% w/w
- CAS name ..... Benzenamine, N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitro- (10CI)
- CAS no. .... 40487-42-1

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IUPAC name(s) ..... N-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine  
 3,4-Dimethyl-2,6-dinitro-N-(pentan-3-yl)aniline  
 ISO name/EU name ..... Pendimethalin  
 EC no. (EINECS no.) ..... 254-938-2  
 EU index no. .... 609-042-00-X  
 Molecular weight ..... 281.3  
 Classification of the ingredient ..... Sensitisation – skin: Category 1 (H317)  
 Hazards to the aquatic environment, acute: Category 1 (H400)  
 chronic: Category 1 (H410)

**Clomazone** ..... Content: 3% w/w  
 CAS name ..... 3-Isoxazolidinone, 2-[(2-chlorophenyl)methyl]-4,4-dimethyl-  
 CAS no. .... 81777-89-1  
 IUPAC name(s) ..... 2-(2-Chlorobenzyl)-4,4-dimethyl-1,2-oxazolidin-3-one  
 2-(2-Chlorobenzyl)-4,4-dimethylisoxazolidin-3-one  
 ISO name/EU name ..... Clomazone  
 EC no. (EINECS no.) ..... None  
 EU index no. .... None  
 Molecular weight ..... 239.7  
 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)

<u>Reportable ingredients</u>	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification * = harmonised classification
Sodium nitrate	5	7631-99-4	231-554-3	Ox. Sol. 3 (H272) * Acute Tox. 3 (H301) * Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) *
Calcium chloride	5	10043-42-4	231-298-2	Eye Irrit. 2 (H319) *
Lignosulfonic acid, sodium salt, sulfomethylated	2	68512-34-5	None	Eye Irrit. 2 (H319)
1,2-Benzisothiazol-3(2H)-one	Max. 0.004	2634-33-5	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 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.
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. <b>Most important symptoms and effects, both acute and delayed</b>	None known.
4.3. <b>Indication of any immediate medical attention and special treatment needed</b>	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. <b>Extinguishing media</b> .....	Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.
5.2. <b>Special hazards arising from the substance or mixture</b>	The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as hydrogen chloride, nitrogen oxides, sulphur dioxide, carbon monoxide, carbon dioxide and various chlorinated organic compounds.
5.3. <b>Advice for firefighters</b> .....	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. <b>Personal precautions, protective equipment and emergency procedures</b>	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
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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.

**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, hydrated lime, 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 ....**

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

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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.

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

**7.2. Conditions for safe storage, including any incompatibilities**

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

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

**7.3. Specific end use(s) .....**

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

**♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Personal exposure limits .....

To our knowledge not established for any of the ingredients in this product. However, personal exposure limits defined by local regulations may exist and must be observed.

**Pendimethalin**

DNEL .....

Not established

PNEC, aquatic environment .....

The EFSA has established an AOEL of 0.0025 mg/kg bw/day  
 0.35 ng/l

**Clomazone**

DNEL .....

Not established

PNEC, aquatic environment .....

The EFSA has established an AOEL of 0.133 mg/kg bw/day  
 0.22 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

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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

The product does not automatically present an airborne exposure concern when handled carefully, but in the event of an accidental discharge of the material which produces a heavy vapour or mist, 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 .....	Dark yellow viscous liquid
Odour .....	Slight
Odour threshold .....	Not determined
pH .....	6.2 at 21°C
Melting point/freezing point .....	Not determined
Initial boiling point and boiling range	Not determined
Flash point .....	> 100°C
Evaporation rate .....	Not determined
Flammability (solid/gas) .....	Not applicable (liquid)
Upper/lower flammability or explosive limits .....	Not determined

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Vapour pressure .....	<b>Pendimethalin</b> : $1.25 \times 10^{-3}$ Pa at 25°C
	<b>Clomazone</b> : $1.92 \times 10^{-2}$ Pa at 25°C
Vapour density .....	Not determined
Relative density .....	1.14
Solubility(ies) .....	Solubility of <b>pendimethalin</b> in:
	n-hexane 49 g/l
	ethyl acetate > 800 g/l
	water 0.275 mg/l at 25°C
	<b>Clomazone</b> is soluble in acetone, acetonitrile, chloroform, cyclohexanone, dichloromethane, methanol, toluene, heptane, dimethylformamide.
	Solubility of clomazone in water: 1100 mg/l
Partition coefficient n-octanol/water	<b>Pendimethalin</b> : $\log K_{ow} = 5.2$
	<b>Clomazone</b> : $\log K_{ow} = 2.5$
Autoignition temperature .....	260°C
Decomposition temperature .....	Not determined
Viscosity .....	78 - 272 mPa.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. <b>Reactivity</b> .....	To our knowledge, the product has no special reactivities.
10.2. <b>Chemical stability</b> .....	The product is stable during normal handling and storage at ambient temperatures.
10.3. <b>Possibility of hazardous reactions</b>	None known.
10.4. <b>Conditions to avoid</b> .....	Heating of the product will evolve harmful and irritant vapours.
10.5. <b>Incompatible materials</b> .....	None known.
10.6. <b>Hazardous decomposition products</b>	See subsection 5.2.

## SECTION 11: TOXICOLOGICAL INFORMATION

11.1. <b>Information on toxicological effects</b>	* = Based on available data, the classification criteria are not met.
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### Product

Acute toxicity .....	The product is not considered as harmful by single exposures. * The acute toxicity is measured as:
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Route(s) of entry	- ingestion	LD <sub>50</sub> , oral, rat: > 5000 mg/kg
	- skin	LD <sub>50</sub> , dermal, rat: > 2000 mg/kg
	- inhalation	LC <sub>50</sub> , inhalation, rat: not available



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Skin corrosion/irritation .....	Not irritating to skin. *
Serious eye damage/irritation .....	Slightly irritating to eyes. *
Respiratory or skin sensitisation ...	Not a skin sensitizer. *
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 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 was measured on the active ingredient <b>clomazone</b> : Target organ: liver LOAEL: 4000 ppm (400 mg/kg bw/day) in a 90-day rat study (method OECD 408). At this dose level, increased liver weight and increased cholesterol were seen. *
Aspiration hazard .....	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed .....	None known.
<b><u>Pendimethalin</u></b>	
Toxicokinetics, metabolism and distribution	Pendimethalin is only partially absorbed after oral intake. It is excreted within a few days, mainly in the urine. It is extensively metabolised. There is no evidence of accumulation.
Acute toxicity .....	Pendimethalin is not considered harmful by single exposures. * The acute toxicity is measured as:
Route(s) of entry    - ingestion	LD <sub>50</sub> , oral, rat: > 5000 mg/kg (method EPA 81-1)
- skin	LD <sub>50</sub> , dermal, rat: > 2000 mg/kg (method EPA 81-2)
- inhalation	LC <sub>50</sub> , inhalation, rat: > 2.26 mg/l/4 h (method EPA 81-3)
Skin corrosion/irritation .....	Mildly irritating to skin (method EPA 81-5). *
Serious eye damage/irritation .....	Mildly irritating to eyes (method EPA 81-4). *
Respiratory or skin sensitisation ...	Results from animal tests are mixed: Buehler test (method EPA 81-6): negative Magnusson-Kligman test (method OECD 406): negative Magnusson-Kligman test (method EPA 81-6): positive

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### Clomazone

Toxicokinetics, metabolism and distribution

Clomazone is rapidly absorbed and excreted. It is widely distributed in the body and almost completely metabolised. There is no evidence of accumulation.

Acute toxicity .....

Clomazone is harmful by ingestion. Harmful effects may occur by inhalation. The acute toxicity is measured as:

Route(s) of entry - ingestion

LD<sub>50</sub>, oral, rat (female): 768 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: > 5.02 mg/l/4 h (method OECD 403) \*  
 symptoms of toxicity at this concentration

Skin corrosion/irritation .....

Slightly irritating to skin (method OECD 404). \*

Serious eye damage/irritation .....

Slightly irritating to eyes (method OECD 405). \*

Respiratory or skin sensitisation ...

Not a skin sensitizer (method OECD 429). \*

### Sodium nitrate

Toxicokinetics, metabolism and distribution

Sodium in ionic form is a normal body constituent and regulated between narrow ranges. These ranges will not be exceeded, except locally in unusual situations such as accidents. Nitrate ion is expected to be absorbed and widely distributed in the body.

Acute toxicity .....

The substance is not considered as harmful. \* The acute toxicity is measured as:

Route(s) of entry - ingestion

LD<sub>50</sub>, oral, rat: 3430 mg/kg (method OECD 401)

- skin

LD<sub>50</sub>, dermal, rat: > 5000 mg/kg  
 (measured on a similar substance, method OECD 402)

- inhalation

LC<sub>50</sub>, inhalation, rat: not available

Skin corrosion/irritation .....

Not irritating to skin (measured on a similar product; method OECD 404). \*

Serious eye damage/irritation .....

Irritating to eyes (method OECD 405).

Respiratory or skin sensitisation ...

Did not cause sensitisation (method OECD 429). \*

### Calcium chloride

Toxicokinetics, metabolism and distribution

Calcium in ionic form is a normal body constituent and regulated between narrow ranges. These ranges will not be exceeded, except locally in unusual situations such as accidents. Chloride ion is expected to be absorbed and widely distributed in the body. It will be rapidly excreted.

Acute toxicity .....

The substance is not considered as harmful. \* The acute toxicity is

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	measured as:
Route(s) of entry - ingestion	LD <sub>50</sub> , oral, rat: 2301 mg/kg (method OECD 401)
- skin	LD <sub>50</sub> , dermal, rat: > 5000 mg/kg
- inhalation	LC <sub>50</sub> , inhalation, rat: not available
Skin corrosion/irritation .....	Not irritating to skin (method OECD 404). *
Serious eye damage/irritation .....	Moderately irritating to eyes. Test results are mixed.
Respiratory or skin sensitisation ...	To our knowledge, cases of allergic sensitisation in humans have not been reported. *

*Lignosulfonic acid, sodium salt, sulfomethylated*

Acute toxicity .....	The substance is not considered as harmful by single exposure. *
Route(s) of entry - ingestion	LD <sub>50</sub> , oral, rat: not available
- skin	LD <sub>50</sub> , dermal, rat: not available
- inhalation	LC <sub>50</sub> , inhalation, rat: not available
Serious eye damage/irritation .....	Causes serious eye irritation.

*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)
- inhalation	LC <sub>50</sub> , inhalation, rat: not available
Skin corrosion/irritation .....	Slightly irritating to skin (method OPPTS 870.2500).
Serious eye damage/irritation .....	Severely irritating to eyes (method OPPTS 870.2400).
Respiratory or skin sensitisation ...	Moderate dermal sensitizer to guinea pigs (method OPPTS 870.2600). The substance appears to be significantly more sensitising to humans.

**SECTION 12: ECOLOGICAL INFORMATION**

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

The measured ecotoxicity of the product is measured as:

- Fish                      Rainbow trout (*Oncorhynchus mykiss*) ..... 96-h LC<sub>50</sub>: 101 mg/l

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- Invertebrates	Daphnids ( <i>Daphnia magna</i> ) .....	48-h EC <sub>50</sub> : 65.5 mg/l
- Algae	Green algae ( <i>Pseudokirchneriella subcapitata</i> ) ....	72-h E <sub>R</sub> C <sub>50</sub> : 0.436 - 5 mg/l 72-h NOEC: 0.05 mg/l

**12.2. Persistence and degradability ....**

**Pendimethalin** is moderately persistent in the environment. Primary degradation half-lives vary with circumstances, but are usually several months in aerobic soil and water.

**Clomazone** is moderately persistent in the environment. Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic soil and water. Degradation occurs microbiologically.

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.

**Pendimethalin** has a potential to bioaccumulate if continuous exposure is maintained. The measured bioaccumulation factor is 5100 for whole fish (bluegill sunfish, *Lepomis macrochirus*). It is rapidly excreted.

**Clomazone** has a low potential to bioaccumulate. The measured bioaccumulation factor of clomazone is 27 - 40. It is rapidly excreted.

**12.4. Mobility in soil .....**

**Pendimethalin** is not mobile in soil, but strongly binds to soil particles.

Under normal conditions **clomazone** is of moderate mobility 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.

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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. (pendimethalin, clomazone)
- 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.  
 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.

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## ♣ SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet .....

Minor corrections only.

List of abbreviations .....

AOEL	Acceptable Operator Exposure Level
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
EPA	Environmental Protection Agency (US)
GHS	Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013
IBC	International Bulk Chemical code
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
NOEC	No Observed Effect Concentration
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Cooperation and Development
OPPTS	Office for Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No Effect Concentration
Reg.	Regulation
STOT	Specific Target Organ Toxicity
vPvB	very Persistent, very Bioaccumulative
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 .....

Test data

Used hazard statements .....

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
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.

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- H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH208 Contains pendimethalin and 1,2-benzisothiazol-3(2H)-one.  
May produce an allergic reaction.  
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