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Product name	SPOTLIGHT PLUS	June 2019
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes November 2017

SAFETY DATA SHEET

Spotlight Plus



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** **Spotlight Plus**
- 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
- 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: 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 |
| 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	Sensitisation – skin: Category 1 (H317) 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 cause allergic sensitisation.
Environmental hazards	The product is very toxic to aquatic organisms.
2.2. Label elements	
<i>According to EU Reg. 1272/2008 as amended</i>	
Product identifier	Spotlight Plus
Hazard pictograms (GHS07, GHS09)	 
Signal word	Warning
Hazard statements	
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
Supplementary hazard statement	
EUH401	To avoid risks to human health and the environment, comply with the instructions of use.
Precautionary statements	
P261	Avoid breathing vapours.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
<i>Active ingredient</i>	
Carfentrazone-ethyl	Content: 7% w/w
CAS name	Benzenepropanoic acid, α ,2-dichloro-5-[4-(difluoromethyl)-4,5-

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CAS no.	dihydro-3-methyl-5-oxo-1H-1,2,4-triazole-1-yl]-4-fluoro, ethyl ester 128639-02-1
IUPAC name(s)	Ethyl 2-chloro-3-(2-chloro-5-(4-difluoromethyl)-3-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl)-4-fluorophenyl)propanoate
ISO name/EU name	Carfentrazone-ethyl
EC no. (EINECS no.)	None
EU index no.	607-309-00-5
Molecular weight	412.2
Classification of the ingredient	Hazards to the aquatic environment, acute: Category 1 (H400) chronic: Category 1 (H410)

Reportable ingredients

	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
1-Ethoxydodecane	16	68551-13-3	None	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Ethoxylated propoxylated silicone	5	134180-76-0	None	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	1 - 3	68953-96-8	273-234-6	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
n-Butanol	Max. 1	71-36-3	200-751-6	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Skin Irrit 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336)

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	Immediately remove contaminated clothing and footwear. Flush skin with water. Wash 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. Get medical attention if irritation develops.
Ingestion	Let the exposed person rinse mouth and drink several glasses of water

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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

Possibly allergic reactions.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate medical attention is required in case of ingestion.

It may be helpful to show this safety data sheet to physician.

Notes to physician

A specific antidote for exposure to this material is not known. Gastric lavage and/or the administration of activated charcoal can be considered. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulphur dioxide, carbon monoxide, carbon dioxide and various chlorinated and fluorinated 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, closable vessels for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

1. use personal protection equipment; see section 8
2. call emergency telephone no.; see section 1
3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots.

Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area.

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- 6.2. **Environmental precautions** Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.
- 6.3. **Methods and materials for containment and cleaning up**
- It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).
- 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, 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
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- 7.1. **Precautions for safe handling** In an industrial environment, it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.
- For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.
- Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after each use.
- Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and

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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 any of the ingredients in this product. However, personal exposure limits defined by local regulations may exist and must be observed.

Carfentrazone-ethyl

DNEL, systemic

Not established

PNEC, aquatic environment

The EFSA has established an AOEL of 0.6 mg/kg bw/day
 1.1 µg/l

8.2. Exposure controls

When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use 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

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.

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Protective gloves

Wear chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton. 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	Yellow orange liquid
Odour	Paste
Odour threshold	Not determined
pH	1% dispersion in water: 4.86
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	111°C
Evaporation rate	Not determined
Flammability (solid/gas)	Not applicable (liquid)
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Carfentrazone-ethyl : 7.2 x 10 ⁻⁶ Pa at 20°C
Vapour density	Not determined
Relative density	0.9308 at 20°C
Solubility(ies)	Solubility of carfentrazone-ethyl at 20°C in ethanol > 2000 g/l hexane 30 g/l water 12 mg/l
Partition coefficient n-octanol/water	Carfentrazone-ethyl : log K _{ow} = 3.36 at 20°C
Autoignition temperature	356°C
Decomposition temperature	Not determined
Viscosity	20.42 mm ² /s at 40°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: > 2000 mg/kg
 - skin LD₅₀, dermal, rat: > 2000 mg/kg
 - inhalation LC₅₀, inhalation, rat: > 5.11 mg/l/4 h
- Skin corrosion/irritation Not irritating to skin. *
- Serious eye damage/irritation Slightly irritating to eyes. *
- Respiratory or skin sensitisation ... May 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 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 **carfentrazone-ethyl**:
 NOAEL: 50 ppm (3 mg/kg bw/day) in a 2-year rat study. *
- Aspiration hazard The product does not present an aspiration pneumonia hazard. *
- Symptoms and effects, acute and delayed Possibly allergic reactions.

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Carfentrazone-ethyl

Toxicokinetics, metabolism and distribution

Carfentrazone-ethyl is rapidly absorbed and widely distributed in the body after oral intake. It is extensively metabolised and rapidly excreted, almost completely within 7 days. There is no evidence of accumulation.

Acute toxicity		The substance is not considered as harmful. * The acute toxicity of the substance is measured as:
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: > 5000 mg/kg
	- skin	LD ₅₀ , dermal, rat: > 4000 mg/kg
	- inhalation	LC ₅₀ , inhalation, rat: > 5.09 mg/l/4 h
Skin corrosion/irritation		Not irritating to skin. *
Serious eye damage/irritation		Not irritating to eyes. *
Respiratory or skin sensitisation ...		Not sensitising. *

Ethoxylated propoxylated silicone

Acute toxicity

The substance is harmful by dermal contact and inhalation. The acute toxicity is measured as:

Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: 3200 mg/kg *
	- skin	LD ₅₀ , dermal, rabbit: 1500 mg/kg
		LD ₅₀ , dermal, rat: > 2000 mg/kg
	- inhalation	LC ₅₀ , inhalation, rat: 1.08 mg/l/4 h (method OECD 403)
Skin corrosion/irritation		Slightly irritating to skin. *
Serious eye damage/irritation		Severely irritating to eyes.
Respiratory or skin sensitisation ...		Not a skin sensitizer. *

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts

Acute toxicity

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

Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: 1080 mg/kg
	- skin	LD ₅₀ , dermal, rabbit: > 2000 mg/kg *
	- inhalation	LC ₅₀ , inhalation, rat: not available
Skin corrosion/irritation		Irritating to skin (method OECD 404).
Serious eye damage/irritation		Irritating to eyes with the potential to cause permanent eye damage (method OECD 405).

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Respiratory or skin sensitisation ...	Not sensitising to guinea pigs (method OECD 406). *
<i>n-Butanol</i>	
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: > 2000 mg/kg (method OECD 401)
- skin	LD ₅₀ , dermal, rat: > 3400 mg/kg (method similar to OECD 402)
- inhalation	LC ₅₀ , inhalation, rat: > 17.8 mg/l/4 h (method OECD 403)
Skin corrosion/irritation	Irritating to skin (Draize test).
Serious eye damage/irritation	Irritating to eyes (method OECD 405).
Respiratory or skin sensitisation ...	Not predicted to be a skin sensitizer (QSAR). To our knowledge, indications of allergenic effects have not been reported. *

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity	<p>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.</p> <p>The following has been measured on the product:</p> <p>E_rC₅₀, algae: 0.45 mg/l NOEC, chronic, algae: 0.1 mg/l</p>
12.2. Persistence and degradability	<p>Carfentrazone-ethyl is not readily biodegradable. Primary degradation in the environment is rapid, usually less than one day, but degradation products are degraded much slower.</p> <p>The product contains small amounts of other ingredients which are not readily biodegradable and may not be degradable in a waste water treatment plant.</p>
12.3. Bioaccumulative potential	<p>See section 9 for octanol-water partition coefficient.</p> <p>Carfentrazone-ethyl is not expected to bioaccumulate either. A Bioaccumulation Factor (BCF) of 176 was measured for whole fish.</p>
12.4. Mobility in soil	<p>Carfentrazone-ethyl and its soil metabolites have a potential for being mobile, but were not detected in a field leaching study.</p>
12.5. Results of PBT and vPvB assessment	<p>None of the ingredients meets the criteria for being PBT or vPvB.</p>
12.6. Other adverse effects	<p>Other relevant hazardous effects in the environment are not known.</p>

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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. (carfentrazone-ethyl)
- 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.

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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.
 Young workers under the age of 18 are not allowed to work with this product.

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

♣ SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet Minor corrections only.

List of abbreviations
 AOEL Acceptable Operator Exposure Level
 CAS Chemical Abstracts Service
 Dir. Directive
 DNEL Derived No Effect Level
 EC European Community
 E_rC₅₀ 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
 IUPAC International Union of Pure and Applied Chemistry
 LC₅₀ 50% Lethal Concentration
 LD₅₀ 50% Lethal Dose
 MARPOL Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
 NOAEL No Observed Adverse Effect Level
 NOEC No Observed Effect Concentration
 n.o.s. Not otherwise specified
 OECD Organisation for Economic Cooperation and Development
 PBT Persistent, Bioaccumulative, Toxic
 PNEC Predicted No Effect Concentration
 QSAR Quantitative Structure-Activity Relationship
 Reg. Regulation
 STOT Specific Target Organ Toxicity
 vPvB very Persistent, very Bioaccumulative
 WHO World Health Organisation

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

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Method for classification	Test data
Used hazard statements	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. 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. 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