

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Product code	6270	Page 1 of 13
Product name	CENTIUM 360 CS	
		October 2019
Safety data sheet according to EU Reg. 1907/2006 as amended Supersedes June 2019		

SAFETY DATA SHEET Centium 360 CS

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 Centium 360 CS

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 Harboøre

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: 800 250 250 (in Portugal only)

Denmark: +45 82 12 12 +351 21 330 3284
England and Wales: 111
Estonia: +372 7943500
France: +33 (0) 1 45 42 59 59
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

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Centium 360 CS

Hazard pictogramsNoneSignal wordNoneHazard statementsNonePrecautionary statementsNone

Supplementary hazard statements

EUH210 Safety data sheet available on request.

EUH401 To avoid risks to human health and the environment, comply with the

instructions of use.

or vPvB.

♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

Centium 360 CS is a suspension in water of porous microcapsules

containing the active ingredient clomazone.

Active ingredient

Clomazone Content: 32% w/w

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

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)



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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 * = harmonised classification
Sodium nitrate Reg. no. 01-2119488221-41	5	7631-99-4	231-554-3	Ox. Sol. 3 (H272) * Acute Tox. 3 (H301) * Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) *
Lignosulfonic acid, sodium salt, sulfomethylated	1	68512-34-5	None	Eye Irrit. 2 (H319)

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 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. Get medical attention if irritation develops.
	Ingestion	Let the exposed person rinse mouth and drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately.
4.2.	Most important symptoms and effects, both acute and delayed	When fed to animals, the active ingredient in this product caused decreased activity, tearing eyes, bleeding from the nose and incoordination
4.3.	Indication of any immediate medical attention and special	Immediate medical attention is required in case of ingestion.
	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. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.



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SECTION 5: FIRE-FIGHTING MEASURES

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, nitrogen oxides, carbon monoxide, carbon dioxide and various

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, 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.

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 detergent and much water. Absorb wash liquid with absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.



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Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections

See subsection 8.2. for personal protection.

See section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

In an industrial environment, it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

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 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)	
1	7.	Specific end use(s)	

The product is a registered pesticide which may only be used for the



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applications it is registered for, in accordance with a label approved by the regulatory authorities.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

0 1	Control	parameters
A I	Comro	Darameiers

exposure limits defined by local regulations may exist and must be

observed.

Clomazone

DNEL Not established

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

PNEC, aquatic environment 0.22 mg/l

Sodium nitrate

> 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.



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.



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Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

***** SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Opaque brown liquid
Slight, of aromatic hydrocarbons
Not determined
Undiluted: 6.16
1% dispersion in water: 8.99
Not determined
Not determined
> 93°C (Tag closed cup)
Not determined
Not applicable (liquid)
Not determined
Clomazone : $1.92 \times 10^{-2} \text{ Pa at } 25^{\circ}\text{C}$
Not determined
1.171 at 20°C
Organic solvents tend to extract the active ingredient from the
capsules.
Clomazone is soluble in acetone, acetonitrile, chloroform,
cyclohexanone, dichloromethane, methanol, toluene, heptane,
dimethylformamide.

Solubility of clomazone in water: 1100 mg/l Clomazone : $\log K_{ow} = 2.5$

Partition coefficient n-octanol/water Autoignition temperature

392°C

Decomposition temperature Not determined

Viscosity

Non-newtonian fluid; viscosity is dependent on shear rate

136 – 837 mPa.s at 20°C; 97 – 644 mPa.s at 40°C

Explosive properties Not explosive Oxidising properties Not oxidising

9.2. Other information

Miscibility The product is dispersible in water.

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity** To our knowledge, the product has no special reactivities.



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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	LD_{50} , oral, rat: > 5000 mg/kg (method OECD 401)	
	- skin	LD_{50} , dermal, rat: > 5000 mg/kg (method OECD 402)	
	- inhalation	LC_{50} , inhalation, rat: > 5.21 mg/l/4 h (method OECD 403)	
	Skin corrosion/irritation	Not irritating to skin (method OECD 404). *	
	Serious eye damage/irritation	Not irritating to eyes (method OECD 405). *	
	Respiratory or skin sensitisation	Not sensitising (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	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 has been measured on the active ingredient clomazone: 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 hazard. *	



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Symptoms and effects, acute and delayed

Lignosulfonic acid, sodium salt, sulfomethylated

Acute toxicity

When fed to animals, the active ingredient in this product caused decreased activity, tearing eyes, bleeding from the nose and incoordination.

The substance is not considered as harmful by single exposure. *

Clomazone

This formulation contains **microencapsulated clomazone**. The toxicity of encapsulated clomazone is lower than that of clomazone itself. It approaches the toxicity of clomazone only in cases where grinding actions break up the capsules, thus freeing the active ingredient.

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. The acute toxicity is measured as:		
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat (female): 768 mg/kg (method OECD 425)		
	- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402) *		
	- inhalation	LC_{50} , inhalation, rat: > 5.02 mg/l/4 h (method OECD 403) *		
Skin corrosion/irritat	ion	Slightly irritating to skin (method OECD 404). *		
Serious eye damage/	irritation	Slightly irritating to eyes (method OECD 405). *		
Respiratory or skin s	ensitisation	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 ₅₀ , oral, rat: 3430 mg/kg (method OECD 401)		
	- skin	$LD_{50},dermal,rat:>5000mg/kg$ (measured on s similar substance, method OECD 402)		
	- inhalation	LC ₅₀ , inhalation, rat: not available		
Skin corrosion/irritat	ion	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). *		
*				



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Route(s) of entry - ingestion LD₅₀, oral, rat: not available

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

Serious eye damage/irritation Causes serious eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

harmful to all plants. It is considered as non-toxic to algae, daphnids,

fish, soil micro- and macroorganisms, birds and insects.

The ecotoxicity measured on the product is:

- FishRainbow trout (Oncorhynchus mykiss)96-h LC50: 593 mg/l- InvertebratesDaphnids (Daphnia magna)48-h EC50: 491 mg/l- AlgaeGreen algae (Pseudokirneriella subcapitata)72-h ErC50: 366 mg/l- PlantsDuckweed (Lemna gibba)7-day ErC50: 3547 mg/l

12.2. **Persistence and degradability** **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 components, which may not be degradable in waste water treatment

plants.

12.3. **Bioaccumulative potential** See section 9 for octanol-water partition coefficient.

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

12.5. Results of PBT and 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.



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possibilities for reuse or reprocessing should first be considered. If this is not possible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with

flue gas scrubbing.

Do not contaminate water, foodstuffs, feed or seed by storage or

disposal. Do not discharge to sewer systems.

Disposal of packaging It is recommended to consider possible ways of disposal in the following order:

- 1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
- 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
- 3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
- 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	Not classified as hazardous material for transport
14.2.	UN proper shipping name	Not applicable
14.3.	Transport hazard class(es)	Not applicable
14.4.	Packing group	Not applicable
14.5.	Environmental hazards	May be hazardous in the environment
14.6.	Special precautions for user	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.
14.7.	Transport in bulk according to Annex II of MARPOL and the IBC code	The product is not transported in bulk by ship.

SECTION 15: REGULATORY INFORMATION

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

To our knowledge, no specific regulations apply.



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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 co	rrections only.
List of abbreviations	AOEL	Acceptable Operator Exposure Level
	CAS	Chemical Abstracts Service
	CS	Capsule Suspension
	Dir.	Directive
	DNEL	Derived No Effect Level
	EC	European Community
	EC_{50}	50% Effect Concentration
	E_rC_{50}	50% Effect Concentration based on growth
	EFSA	European Food Safety Authority
	EINECS	
		Substances
	GHS	Globally Harmonized classification and labelling System
		of chemicals, Fifth revised edition 2013
	IBC	International Bulk Chemical code
	ISO	International Organisation for Standardization
	IUPAC	International Union of Pure and Applied Chemistry
	LC_{50}	50% Lethal Concentration
	LD_{50}	50% Lethal Dose
	LOAEL	Lowest Observed Adverse Effect Level
	MARPOI	L Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
	OECD	Organisation for Economic Cooperation and Development
	PBT	Persistent, Bioaccumulative, Toxic
	PNEC	Predicted No Effect Concentration
	Reg.	Registration, or
		Regulation
	STOT	Specific Target Organ Toxicity
	vPvB	very Persistent, very Bioaccumulative
	WHO	World Health Organisation
References		sured on the product are unpublished company data. Data of ts are available from published literature and can be found laces.
Method for classification	Test data	
Used hazard statements	H272	May intensify fire; oxidiser.
	H301	Toxic if swallowed.
	H302	Harmful if swallowed.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.

H400

Very toxic to aquatic life.



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H410 Very toxic to aquatic life with long lasting effects.

EUH210 Safety data sheet available on request.

EUH401 To avoid risks to human health and the environment,

comply with the instructions of use.

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