according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name CENTIUM® 36 CS

Other means of identification

Product code 50000821

Unique Formula Identifier

(UFI)

: HH60-K349-1N4J-9HA5

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

Use of the Sub- : Herbicide

stance/Mixture

Recommended restrictions :

on use

Use as recommended by the label.

For professional users only.

1.3 Manufacturer or supplier's details

Supplier Address Cheminova Deutschland GmbH & Co. KG

Stader Elbstrasse 26

21683 Stade Germany

Telephone: +49 (0) 4141 9204 0 Telefax: +45 (0) 4141 9204 206

E-mail address: datenblatt@fmc.com, SDS-Info@fmc.com.

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call: Germany: +49-69643508409 (CHEMTREC)

0800-181-7059 (CHEMTREC)

Medical emergency:

Germany: +49 (0) 551 19240

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 1

H410: Very toxic to aquatic life with long lasting

effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/container as hazardous waste in

accordance with local regulations.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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

tions for use.

For special phrases (SP) and safety intervals, consult the label.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023
1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No.		(/o vv/ vv)
clomazone (ISO)	Registration number 81777-89-1 613-340-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 30 - < 50
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
		Acute toxicity esti- mate	
		Acute oral toxicity: 768 mg/kg Acute inhalation tox- icity (dust/mist): 4,85 mg/l	
Calcium chloride dihydrate	10035-04-8	Eye Irrit. 2; H319	>= 1 - < 10
sodium nitrate	7631-99-4 231-554-3	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 1 - < 10
		Acute toxicity esti- mate	
		Acute oral toxicity: 2.000 mg/kg	
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	Eye Irrit. 2; H319	>= 1 - < 10
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 2; H330 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317	>= 0,0025 - < 0,025

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version 1.1	Revision Date: 23.10.2024	SDS Number: 50000821	Date of last issue: 13.12.2023 Date of first issue: 13.12.2023
			Aquatic Acute 1; H400 Aquatic Chronic 1; H410
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1
			specific concentration limit Skin Sens. 1A; H317 >= 0,036 %
			Acute toxicity estimate
	volanation of abbrevia		Acute oral toxicity: 450 mg/kg Acute inhalation toxicity (dust/mist): 0,21 mg/l

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Do not leave the victim unattended.

Show this safety data sheet to the doctor in attendance.

If inhaled : Remove to fresh air.

If unconscious, place in recovery position and seek medical

advice.

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 ambu-

lance.

In case of skin contact : If on clothes, remove clothes.

If on skin, rinse well with water.

Wash off with soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.

In case of eye contact : Flush eyes with water as a precaution.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : 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 treatment needed

Treatment : Treat symptomatically.

Immediate medical attention is required in case of ingestion.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

Do not spread spilled material with high-pressure water

streams.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Fire may produce irritating, corrosive and/or toxic gases.

Halogenated compounds Nitrogen oxides (NOx)

Carbon oxides

Chlorinated compounds

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023
1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Use personal protective equipment. If it can be safely done, stop the leak.

Do not touch or walk through the spilled material. Never return spills in original containers for re-use.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Only qualified personnel equipped with suitable protective

equipment may intervene.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological

safety standards.

Further information on stor-

age conditions

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. 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 availa-

ble.

Storage class (TRGS 510) : 10

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label

approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Calcium chloride di- hydrate	Consumers	Inhalation	Long-term local ef- fects	2,5 mg/m3
	Workers	Inhalation	Long-term local ef- fects	5 mg/m3
	Workers	Inhalation	Acute local effects	10 mg/m3
	Consumers	Inhalation	Acute local effects	5 mg/m3
1,2-benzisothiazol- 3(2H)-one	Workers	Inhalation	Long-term systemic effects	6,81 mg/m3
	Workers	Dermal	Long-term systemic effects	0,966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
1,2-benzisothiazol-3(2H)-one	Fresh water	0,00403 mg/l
	Marine water	0,000403 mg/l

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Sewage treatment plant	1,03 mg/l	
Fresh water sediment	0,0499 mg/l	
Marine sediment	0,00499 mg/l	

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product.

Always have on hand a first-aid kit, together with proper in-

structions.

Wear suitable protective equipment. When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instruc-

tions for use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : opaque, brown

Odour : slight, aromatic, hydrocarbon-like

Odour Threshold : not determined

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Upper explosion limit / Upper : not determined

flammability limit

Lower explosion limit / Lower : not determined

flammability limit

Flash point : > 93 °C

Method: closed cup

Auto-ignition temperature : 392 °C

Decomposition temperature : not determined

pH : 8,99 (22,5 °C)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Concentration: 1 % (1% solution in water)

6,16 (21 °C) (undiluted)

Viscosity

Viscosity, dynamic : 136 - 837 mPa,s (20 °C) 97 - 644 mPa,s (40 °C)

It is a non-newtonian fluid; viscosity decreases with increasing

shear rate.

Viscosity, kinematic : No data available

Solubility(ies)

Solubility in other solvents : No data available

Partition coefficient: n- : Not available for this mixture.

octanol/water

Vapour pressure : Not available for this mixture.

Relative density : 1,171 (20 °C) Relative vapour density : not determined

Particle characteristics

Particle size : Not applicable

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : No data available Evaporation rate : not determined Miscibility with water : dispersible

Surface tension : 43,5 mN/m, 25 °C, GLP: yes

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Protect from frost, heat and sunlight.

Heating of the product will produce harmful and irritant va-

pours.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,21 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 402

Components:

clomazone (ISO):

Acute oral toxicity : Acute toxicity estimate: 768 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

LD50 (Rat, female): 768 mg/kg Method: OECD Test Guideline 425

LD50 (Rat, female): 300 - 2.000 mg/kg Method: OECD Test Guideline 423

Target Organs: Liver

Assessment: The component/mixture is moderately toxic after

single ingestion.

LD50 (Rat, female): 1.564 mg/kg

Symptoms: ataxia

Acute inhalation toxicity : Acute toxicity estimate: 4,85 mg/l

Test atmosphere: dust/mist

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

LC50 (Rat): > 5,02 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

LC50 (Rat, female): 4,23 mg/l

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Exposure time: 4 h

Test atmosphere: dust/mist Method: EPA OPP 81 - 3 Symptoms: Breathing difficulties

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg

Method: US EPA Test Guideline OPP 81-2

Assessment: The component/mixture is minimally toxic after

single contact with skin. Remarks: no mortality

Calcium chloride dihydrate:

Acute oral toxicity : LD50 (Rat, male): 2.120 mg/kg

Method: OECD Test Guideline 401

Remarks: mortality

LD50 (Rat, female): 2.361 mg/kg Method: OECD Test Guideline 401

Remarks: mortality

LD50 (Rat, male and female): 2.301 mg/kg

Method: OECD Test Guideline 401

Symptoms: Lethargy, Necrosis, Gastrointestinal disturbance,

respiratory tract irritation Remarks: mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg

Remarks: no mortality

sodium nitrate:

Acute oral toxicity : LD50 (Rat, male and female): 3.430 mg/kg

Method: OECD Test Guideline 401

LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 425

Acute inhalation toxicity : LD50 (Rat): > 0,527 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 402

Lignosulfonic acid, sodium salt, sulfomethylated:

Acute oral toxicity : LD50 (Rat, female): > 10 g/kg

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg

Method: OECD Test Guideline 401

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Acute toxicity estimate: 450 mg/kg

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Remarks: Based on EU Harmonised classification - Annex VI

of Regulation (EC) No 1272/2008 (CLP Regulation)

Acute inhalation toxicity : Acute toxicity estimate: 0,21 mg/l

Test atmosphere: dust/mist

Method: Acute toxicity estimate according to Regulation (EC)

No. 1272/2008

Remarks: Based on EU Harmonised classification - Annex VI

of Regulation (EC) No 1272/2008 (CLP Regulation)

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Method : OECD Test Guideline 404

Result : No skin irritation

Components:

clomazone (ISO):

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 404
Result : slight or no skin irritation.

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404 Remarks : May cause mild irritation.

Minimal effects that do not meet the threshold for classifica-

tion.

Calcium chloride dihydrate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Lignosulfonic acid, sodium salt, sulfomethylated:

Result : No skin irritation

1,2-benzisothiazol-3(2H)-one:

Species : Rabbit

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Exposure time : 72 h

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Method : OECD Test Guideline 405

Result : No eye irritation

Components:

clomazone (ISO):

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 405
Result : Slight or no eye irritation

GLP : yes

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405 Remarks : May cause mild irritation.

Minimal effects that do not meet the threshold for classifica-

tion.

Calcium chloride dihydrate:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Irritation to eyes, reversing within 21 days

sodium nitrate:

Species : Rabbit

Assessment : Irritating to eyes.

Method : OECD Test Guideline 405

Result : Eye irritation

Lignosulfonic acid, sodium salt, sulfomethylated:

Result : Eye irritation

1,2-benzisothiazol-3(2H)-one:

Species : Bovine cornea

Method : OECD Test Guideline 437

Result : No eye irritation

Species : Rabbit

Method : EPA OPP 81-4

Result : Irreversible effects on the eye

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Method : OECD Test Guideline 429

Result : Did not cause sensitisation on laboratory animals.

Components:

clomazone (ISO):

Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Species : Guinea pig

Assessment : Not a skin sensitizer.

Method : US EPA Test Guideline OPP 81-6

Result : Not a skin sensitizer.

sodium nitrate:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

Lignosulfonic acid, sodium salt, sulfomethylated:

Species : Guinea pig

Result : Not a skin sensitizer.

1,2-benzisothiazol-3(2H)-one:

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitisation by skin contact.

Species : Guinea pig Method : FIFRA 81.06

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity- As-

: Contains no ingredient listed as a mutagen

sessment

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Components:

clomazone (ISO):

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay

Species: Rat

Method: OECD Test Guideline 473

Result: negative

Calcium chloride dihydrate:

Genotoxicity in vitro : Test Type: reverse mutation assay

Metabolic activation: Metabolic activation

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Germ cell mutagenicity- As-

sessment

In vitro tests did not show mutagenic effects

sodium nitrate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay

Species: Mouse Application Route: Oral

Result: negative

Lignosulfonic acid, sodium salt, sulfomethylated:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Genotoxicity in vitro : Test Type: gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay

Species: Rat (male) Cell type: Liver cells

Application Route: Ingestion

Exposure time: 4 h

Method: OECD Test Guideline 486

Result: negative

Test Type: Micronucleus test

Species: Mouse Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity - Assess-

ment

Contains no ingredient listed as a carcinogen

Components:

clomazone (ISO):

Species : Rat, male and female

Application Route : Oral
Exposure time : 2 Years
Result : negative

Species : Mouse

Method : OECD Test Guideline 453

Result : negative

Lignosulfonic acid, sodium salt, sulfomethylated:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Remarks : No data available

Reproductive toxicity

Not classified based on available information.

Product:

Reproductive toxicity - As-

sessment

Contains no ingredient listed as toxic to reproduction

Components:

clomazone (ISO):

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Oral Symptoms: Maternal effects

Result: negative

Test Type: Embryo-foetal development

Species: Rabbit Application Route: Oral Symptoms: Maternal effects

Result: negative

Calcium chloride dihydrate:

Effects on foetal develop-

ment

Species: Rabbit

Application Route: Oral

Dose: 1.69, 7.85, 35.6, 169 mg/kg/d Duration of Single Treatment: 13 d

General Toxicity Maternal: NOAEL: > 169 mg/kg bw/day Embryo-foetal toxicity: NOAEL: > 169 mg/kg bw/day

Result: negative

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

sodium nitrate:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Oral

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: reproductive and developmental toxicity study

Species: Rat

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Application Route: Oral

Result: negative

Lignosulfonic acid, sodium salt, sulfomethylated:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, male

Application Route: Ingestion

General Toxicity - Parent: NOAEL: 18,5 mg/kg body weight

General Toxicity F1: NOAEL: 48 mg/kg body weight

Fertility: NOAEL: 112 mg/kg bw/day

Symptoms: No effects on reproduction parameters

Method: OPPTS 870.3800

Result: negative

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

STOT - single exposure

Not classified based on available information.

Components:

Lignosulfonic acid, sodium salt, sulfomethylated:

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Components:

Calcium chloride dihydrate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Lignosulfonic acid, sodium salt, sulfomethylated:

Remarks : No data available

1,2-benzisothiazol-3(2H)-one:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Repeated dose toxicity

Components:

clomazone (ISO):

Species : Rat, male and female

NOEL : 1000 ppm Application Route : Oral Exposure time : 90 days

Symptoms : increased liver weight

Species : Rat

LOAEL : 400 mg/kg Exposure time : 90 d

Method : OECD Test Guideline 408

Symptoms : Liver effects

1,2-benzisothiazol-3(2H)-one:

Species : Rat, male and female

NOAEL : 15 mg/kg Application Route : Ingestion Exposure time : 28 d

Method : OECD Test Guideline 407

Symptoms : Irritation

Species : Rat, male and female

NOAEL : 69 mg/kg Application Route : Ingestion Exposure time : 90 d

Symptoms : Irritation, Reduced body weight

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

clomazone (ISO):

The substance does not have properties associated with aspiration hazard potential.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

levels of 0.1% or higher.

Components:

clomazone (ISO):

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks : This product contains microencapsulated active ingredients.

The toxicity of encapsulated substances is always lower than that of the substances themselves. It approaches the toxicity of the substances only in cases where grinding actions break

up the capsules, thus freeing the active ingredients.

Components:

clomazone (ISO):

Remarks : When fed to animals, clomazone caused decreased activity,

tearing eyes, bleeding from the nose and incoordination.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 64,8 mg/l

Exposure time: 96 h

Remarks: (Data on the product itself)

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Americamysis bahia (mysid shrimp)): > 24 mg/l

Exposure time: 96 h Remarks: Active ingredient

Toxicity to algae/aquatic

plants

ErC50 (Navicula pelliculosa (Diatom)): > 49,8 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201 Remarks: (Data on the product itself)

NOEC (Navicula pelliculosa (Diatom)): 4,51 mg/l

Exposure time: 72 h

Remarks: (Data on the product itself)

ErC50 (Lemna gibba (duckweed)): > 11,4 mg/l

Exposure time: 7 d

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Remarks: (Data on the product itself)

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Remarks: According to calculation method of Regulation (EC)

No 1272/2008.

Components:

clomazone (ISO):

Toxicity to fish : LC50 (Menidia beryllina (Silverside)): 6,3 mg/l

Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): > 45 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 34 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 40,8 mg/l

Exposure time: 48 h

EC50 (Daphnia (water flea)): 5,2 mg/l

Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 12,7 mg/l

Exposure time: 48 h Test Type: static test

EC50 (Mysidopsis bahia (opossum shrimp)): 9,8 mg/l

Exposure time: 48 h

LC50 (Americamysis bahia (mysid shrimp)): 0,57 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to algae/aquatic

plants

EbC50 (Selenastrum capricornutum (green algae)): 2 mg/l

Exposure time: 72 h

ErC50 (Selenastrum capricornutum (green algae)): 4,1 mg/l

Exposure time: 72 h

ErC50 (Navicula pelliculosa (Freshwater diatom)): 0,136 mg/l

Exposure time: 120 h

EC50 (Lemna gibba (duckweed)): 13,9 mg/l

Exposure time: 7 d

NOEC (Navicula pelliculosa (Freshwater diatom)): 0,05 mg/l

End point: Growth rate Exposure time: 120 h

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 13.12.2023

 1.1
 23.10.2024
 50000821
 Date of first issue: 13.12.2023

NOEC (algae): 0,05 mg/l Exposure time: 96 h

EC50 (Lemna gibba (duckweed)): 13,9 mg/l

Exposure time: 7 d

EC50 (algae): 0,136 mg/l Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

: 1

Toxicity to fish (Chronic tox-

icity)

NOEC: 2,3 mg/l

Exposure time: 21 d

Species: Oncorhynchus mykiss (rainbow trout)

Test Type: flow-through test

NOEC: 2,29 mg/l Exposure time: 57 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 2,2 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

NOEC: 0,032 mg/l Exposure time: 28 d

Species: Americamysis bahia (mysid shrimp)

Test Type: flow-through test

NOEC: 1,25 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: static test

M-Factor (Chronic aquatic

toxicity)

: 1

Toxicity to soil dwelling or-

ganisms

LC50: 156 mg/kg Exposure time: 14 d

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

LD50: > 2.510 mg/kg

Species: Anas platyrhynchos (Mallard duck)

LC50: > 5620 ppm

Species: Anas platyrhynchos (Mallard duck)

Remarks: Dietary

LD50: > 2000

Species: Coturnix japonica (Japanese quail)

NOEC: 94 mg/kg

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

End point: Reproduction Test Species: Colinius virginianus

LC50: > 85.29

Species: Apis mellifera (bees)

LC50: > 100

Species: Apis mellifera (bees)

Remarks: Contact

Calcium chloride dihydrate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.630 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 2.400 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (algae)): 2.900 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

EC50: 610 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

sodium nitrate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 8.600 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

Toxicity to microorganisms : EC50 : > 1.000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to fish (Chronic tox-

icity)

NOEC: 157 mg/l

Exposure time: 32 d

Species: Pimephales promelas (fathead minnow)

Lignosulfonic acid, sodium salt, sulfomethylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 615 mg/l

Exposure time: 96 h

1,2-benzisothiazol-3(2H)-one:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7

mg/l

Exposure time: 96 h Test Type: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,9 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

1

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

EC50 (activated sludge): 12,8 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

M-Factor (Chronic aquatic

toxicity)

: 1

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Product contains minor amounts of not readily bio-

degradable components, which may not be degradable in

waste water treatment plants.

Components:

clomazone (ISO):

Biodegradability : Result: Not readily biodegradable.

Remarks: Substance/product is moderately persistent in the

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version **Revision Date:** SDS Number: Date of last issue: 13.12.2023 23.10.2024 50000821 Date of first issue: 13.12.2023 1.1

environment.

Primary degradation half-lives vary with circumstances, from a

few weeks to a few months in aerobic soil and water.

sodium nitrate:

Biodegradability Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Lignosulfonic acid, sodium salt, sulfomethylated:

Biodegradability Result: Not readily biodegradable.

> Biodegradation: < 5 % Exposure time: 28 d

Method: OECD Test Guideline 301E

1,2-benzisothiazol-3(2H)-one:

Biodegradability Result: rapidly biodegradable

Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Product:

Bioaccumulation Remarks: No data is available on the product itself.

Components:

clomazone (ISO):

Bioaccumulation Bioconcentration factor (BCF): 27 - 40

Remarks: Low potential for bioaccumulation

log Pow: 2,61 - 2,69 (20 - 21 °C)

Partition coefficient: n-

pH: 4 - 10

octanol/water

Method: Regulation (EC) No. 440/2008, Annex, A.8

Lignosulfonic acid, sodium salt, sulfomethylated:

Bioaccumulation Remarks: Low potential for bioaccumulation

Partition coefficient: n-

octanol/water

log Pow: -3,45

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation Species: Lepomis macrochirus (Bluegill sunfish)

Exposure time: 56 d

Bioconcentration factor (BCF): 6,62 Method: OECD Test Guideline 305

Remarks: Substance is not persistent, bioaccumulative, and

toxic (PBT).

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Partition coefficient: n-

octanol/water

: log Pow: 0,7 (20 °C)

pH: 7

log Pow: 0,99 (20 °C)

pH: 5

12.4 Mobility in soil

Product:

Distribution among environ-

mental compartments

: Remarks: No data is available on the product itself.

Components:

clomazone (ISO):

Distribution among environ-

mental compartments

Koc: 300 ml/g, log Koc: 2,47

Remarks: Moderately mobile in soils

1,2-benzisothiazol-3(2H)-one:

Distribution among environ-

mental compartments

Koc: 9,33 ml/g, log Koc: 0,97 Method: OECD Test Guideline 121 Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

clomazone (ISO):

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Components:

clomazone (ISO):

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Components:

clomazone (ISO):

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Do not re-use empty containers.

Packaging that is not properly emptied must be disposed of as

the unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Clomazone)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Clomazone)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Clomazone)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Clomazone)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Clomazone)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADN
 : 9

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

IATA : 9

14.4 Packing group

ADN

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen- : 964

ger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regu-

lations.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

: Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023 1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) on substances that deplete the ozone

layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspisordium nitrate (ANNEX II) cious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germa-

: WGK 3 highly hazardous to water

ny)

Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:

Not applicable

5.2.2: Inorganic substances in powdered form:

Not applicable

5.2.4: Inorganic substances in gaseous form:

Not applicable

5.2.7.1.1: Carcinogenic substance:

Not applicable

5.2.7.1.2: Germ cell mutagens:

Not applicable

5.2.7.1.3: Substances toxic to reproduction:

Not applicable

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version	Revision Date:	SDS Number:	Date of last issue: 13.12.2023
1.1	23.10.2024	50000821	Date of first issue: 13.12.2023

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

clomazone (ISO)

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer.
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.

H330 : Fatal if inhaled.
H332 : Harmful if inhaled.
H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023
1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification procedure:

Aquatic Chronic 1 H410 Calculation method

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to ensure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared by

FMC Corporation

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CENTIUM® 36 CS

Version Revision Date: SDS Number: Date of last issue: 13.12.2023
1.1 23.10.2024 50000821 Date of first issue: 13.12.2023

FMC and the FMC Logo are trademarks of FMC Corporation and/or an affiliate.

© 2021-2024 FMC Corporation. All Rights Reserved.

DE / 6N