

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

print: 24.01.2025

rev n°: 5 (replaces version 4)

Revision date: 24.01.2025

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

1.1 Product identifier

Trade name: *LIBECCIO***kind of formulation:** Capsule suspension (CS)**Article number:** Not applicable**Registration number REACH:** Not applicable.**UFI:** PQ9Y-RPX2-E106-6AUK

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

Relevant use: Agriculture.

Herbicide

Agrochemicals formulation.

Product category PC27: Plant protection products

Application of the substance / the mixture

Plant protection product

Agricultural chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SIPCAM OXON S.p.A.

Registered office: Via Carroccio, 8 - 20123 Milano, Italia

Management: Via Sempione, 195 - 20016 Pero (MI), Italia

Production site: Via Vittorio Veneto, 81 - 26857 Salerano s. Lambro (LO), Italia

Tel.: +39 0371 5961 (8:00 - 17:00 GMT+1)

Website: www.sipcam-oxon.comE-mail: msds@sipcam.com

1.4 Emergency telephone number:

Emergency phone: +39 02 353781 (8.00-17.00 GMT+1)

For any questions regarding this MSDS please contact:

msds@sipcam.com

Refer to section 16 for Poison Centres.

CENTRE ANTIPOISONS BELGE/BELGISCH ANTIGIFCENTRUM/BELGISCHE GIFTNOTRUFZENTRALE

+32 070 245 245

<https://www.centreantipoisons.be/>

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS09

Signal word: Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P391 Collect spillage.

Additional information:

SP1 Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

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

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

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** The mixture does not contain any PBT substances.**vPvB:** The mixture does not contain any vPvB substances.**Determination of endocrine-disrupting properties**

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Mixture of the substances listed below with harmless additions:**Dangerous components:**

N° CAS	Designation	R-Phrases	%
CAS: 81777-89-1 EC number: 617-258-0 Index number: 613-340-00-5	Clomazone ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332 ATE: LD50 oral: 768 mg/kg LC50 (4 h) inhalative: 4.85 mg/L		25-50%
CAS: 15245-12-2 EINECS: 239-289-5 Reg.nr.: 01-2119493947-16-xxxx	Calcium Ammonium Nitrate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302		≥3-≤10%
CAS: 68512-34-5 EC number: 614-547-3	Lignosulfonic acid, sodium salt, sulfomethylated ⚠ Eye Irrit. 2, H319		<2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60-xxxx	1,2-benzisothiazol-3(2H)-one ⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD50 oral: 450 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %		≥0.025-<0.036%

Additional information

Factor M=1, unless otherwise stated.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information**

Show this safety data sheet to the doctor.

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact Instantly wash with water and soap and rinse thoroughly.**After eye contact**

Rinse opened eye for several minutes under running water, until symptoms disappear, and then with ophthalmic decongestant solution; seek medical attention. Take immediately to hospital, in case of severe injuries.

After swallowing

Call a doctor immediately.

Rinse out mouth without swallowing, do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed**

Medical supervision for at least 48 hours

Seek the advice of a Poison Control Centre

Treat symptomatically and supportively

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.

Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents None.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

Wear protective clothing conforming to European Standard EN 469.

Additional information

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

Do not allow extinguishing media and spilled material to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources

Keep people at a distance and stay on the windward side.

Wear protective clothing.

6.1.1. For non-emergency personnel

wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;

remove ignition sources, provide sufficient ventilation, control dust;

apply emergency procedures, evacuate the danger area or consult an expert.

6.1.2. For emergency responders

wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;

In case of dust provide inhalation protection

Wear protective clothing, boots and glasses

6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Inform respective authorities in case product reaches water or sewage system.

Do not allow to enter drainage system, surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

Collect with suitable equipment and do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from foodstuffs, beverages and food.

Ensure good ventilation/exhaustion at the workplace.

Avoid splashes or spray in enclosed areas.

Wear personal protective equipments (PPE).

The usual precautionary measures for handling chemicals shall be observed.

Information about protection against explosions and fires:

The product is not flammable

Keep ignition sources away - Do not smoke.

Handling Avoid direct or indirect contact with the product. Do not eat, drink or smoke while working.

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

Store in a cool and ventilated place, away from heat source and direct sunlight without open sewage system.

Keep out the reach of children, unauthorized persons and animals. Keep away from food, drink and animal feedingstuffs.

Requirements to be met by storerooms and containers: Store only in the original container.

Information about storage in one common storage facility:

Prevent storage with incompatible materials (see chapter 10).

Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well sealed containers.

Storage class 12

7.3 Specific end use(s)

Agriculture

To be applied strictly for the uses described in the label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters**Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs**CAS: 15245-12-2 Calcium Ammonium Nitrate**

Oral	DNEL Long-term	8.33 mg/kg bw/day (consumers)
Dermal	DNEL Long-term	13.9 mg/kg bw/day (workers)
		8.33 mg/kg bw/day (consumers)
Inhalative	DNEL Long-term	24.5 mg/m ³ (workers)
		6.3 mg/m ³ (consumers)

PNECs**CAS: 15245-12-2 Calcium Ammonium Nitrate**

PNEC	18 mg/L (sewage treatment plant)
	0.45 mg/L (fresh water)
	4.5 mg/L (intermittent release in water)
	0.045 mg/L (marine water)

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls**Individual protection measures, such as personal protective equipment****General protective and hygienic measures**

The usual precautionary measures for handling chemicals shall be observed.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Breathing equipment:

Not required.

Not necessary if room is well-ventilated.

Hand protection

Protective gloves (rubber or plastic).



Protective gloves against chemicals and micro-organisms in accordance with EN 374

Material of gloves Nitrile rubber, NBR

Eye/face protection

Safety glasses recommended during refilling.

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Safety glasses in accordance with EN 166.

Body protection: Protective work clothing.

Boots Safety footwear for professional use in accordance with EN 345.

Environmental exposure controls

Waste waters from equipment cleaning shall be disposed according to local and national regulation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid Capsule suspension
Colour:	Beige
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not applicable
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not applicable because the product is liquid
Lower and upper explosion limit	
Lower:	Not explosive Method EU A.14
Upper:	Not explosive Method EU A.14
Flash point:	no flash point up to 120 °C. Method EU A.9
Auto-ignition temperature:	388±7 °C (EU A.15)
Decomposition temperature:	Not determined.
pH value (1% in distilled water) at 22.4 °C	8.11 (CIPAC MT 75.3)
pH (undiluted sample)	
Viscosity:	
Kinematic viscosity dynamic at 20 °C:	Not required, formulation is not for ULV use. 1017.2 mPas (20rpm; OECD 114)
Solubility	
Water:	Dispersible
Partition coefficient n-octanol/water (log value)	Not determined.
Density and/or relative density	
Density at 20 °C	1.165 g/ml (OECD 109; EU A.3)

9.2 Other information

Appearance:	
Form:	Suspension
Important information on protection of health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting. Method EU A.15
Explosive properties:	Product is not explosive. Method EU A.14
Change in condition	
Softening point/range	
Oxidising properties	Not an oxidiser Method EU A.21

Information with regard to physical hazard classes

Explosives	The product is not explosive. Method EU A.14
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void

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Flammable liquids	The product is not flammable as it does not contain flammable solvents.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Product is not autoflammable. Method EU A.15
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Product not oxidising. Method EU A.21
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity** The product is not reactive under recommended handling conditions.
- 10.2 Chemical stability** Stable under the recommended handling and storage conditions (see section 7).
- Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions** No dangerous reactions are known.
- 10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:** None in standard storage conditions.

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 (4 h)	>3.93 mg/L (rat)

CAS: 81777-89-1 Clomazone

Oral	LD50	768 mg/kg (ATE)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50 (4 h)	4.85 mg/L (ATE)

CAS: 15245-12-2 Calcium Ammonium Nitrate

Oral	LD50	>300 mg/kg (rat)
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CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated

Oral	LD50	<10,000 mg/kg (rat)
Inhalative	LC50 (4 h)	>480 mg/L (rat)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Skin corrosion / irritation - Test

Irritation of skin	Skin corrosion	(rabbit) (OECD 404) Not irritant
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CAS: 81777-89-1 Clomazone

Irritation of skin	Skin corrosion	(rabbit) Not irritant
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CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated

Irritation of skin	Skin corrosion	(rabbit) Not irritant
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Serious eye damage/irritation Based on available data, the classification criteria are not met.

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Serious eye damage / Irritation - Test

Irritation of eyes	Eye Irritation	(rabbit) (OECD 405)
		Not irritant

CAS: 81777-89-1 Clomazone

Irritation of eyes	Eye Irritation	(rabbit)
		Not irritant

CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated

Irritation of eyes	Eye Irritation	(rabbit)
		Irritant

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**Sensitisation - Test**

Sensitization	(mice) (OECD 429 Mouse Local lymphnode assay)
	Not sensitiser

CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated

Sensitization	(guinea pig)
	Not sensitizing

Germ cell mutagenicity Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**Other information:** For symptoms and effects see section 4.**Additional toxicological information:****Acute effects (acute toxicity, irritation and corrosivity)** No further information available.**Repeated dose toxicity** No relevant information available.**CMR effects (cancerogenity, mutagenicity and toxicity for reproduction)**

No carcinogenic, mutagenic or reprotoxic effects were found

11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity** Very toxic to aquatic life with long lasting effects.**Aquatic toxicity:**

EC50 (48h)	>100 mg/L (Daphnia magna)
ErC50 (72h)	1,326.78 mg/L (algae Pseudokirchneriella subcapitata)
EyC50 (72h)	467.59 mg/L (algae Pseudokirchneriella subcapitata)
LC 50	>500 mg/L (rainbow trout (oncorhynchus mykiss))

CAS: 81777-89-1 Clomazone

LC50 (96h)	15.5 mg/L (rainbow trout (oncorhynchus mykiss))
EC50 (48h)	12.7 mg/L (Daphnia magna)
EC50	>185 mg/L (algae) (Navicula pelliculosa - 120 h - ErC50)
	>34 mg/L (lemna gibba) (14 d - ErC50)

CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated

LC50 (96h)	615 mg/L (pimephales promelas)
EC50 (48h)	5.4 mg/L (Crassostrea gigas)

Environmental toxicity**CAS: 81777-89-1 Clomazone**

Oral	EC 50	2,510 mg/kg (Colinus virginianus)
	LD 50	>85.29 µg/bee (bee (Apis mellifera))
Dermal	LD 50	>100 µg/bee (bee (Apis mellifera))

12.2 Persistence and degradability No further relevant information available.

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12.3 Bioaccumulative potential
CAS: 81777-89-1 Clomazone

Octanol / Water partition coefficient 2.54 (partition n-octanol/water) (23°C)

CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated

 Octanol / Water partition coefficient ≤ 3.45
12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: None of the ingredients meets the classification requirements.

vPvB: None of the ingredients meets the classification requirements.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

Remark:
DT 50 (active ingredient)
CAS: 81777-89-1 Clomazone

 DT 50 89 days (soil)
 moderate to persistent
 52.5 days (water)
 slow degradation

Additional ecological information:
General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Also poisonous for fish and plankton in water bodies.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation


Must be specially treated under adherence to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Dispose empty packagings according to current regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR/RID/ADN, IMDG, IATA

 Not applicable
 UN3082

14.2 UN proper shipping name
ADR/RID/ADN

 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
 N.O.S. (Clomazone)

IMDG

 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Clomazone), MARINE POLLUTANT

IATA

 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Clomazone)

14.3 Transport hazard class(es)
ADR/RID/ADN

Class

9 (M6) Miscellaneous dangerous substances and articles.

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Label	9
IMDG, IATA	
	
Class Label	9 Miscellaneous dangerous substances and articles. 9
14.4 Packing group ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR/RID/ADN):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
Remarks:	Transport in Limited Quantities only in suitable packaging. ADR Special Provision 375 may apply for UN 3077 in packagings of 5 kg or less and for UN3082 in packagings of 5 L or less.
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Remarks:	IMDG Code 2.10.2.7 may apply for UN 3077 in packagings of 5 kg or less and for UN3082 in packagings of 5 L or less.
IATA	
Remarks:	For UN 3077 in packagings of 5 kg or less and UN3082 in packagings of 5 L or less, Special Provision A197 may apply according to IATA Dangerous Goods Regulation.
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOMAZONE), 9, III

SECTION 15: Regulatory information

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

Regulation (EC) n. 1907/2006
 Regulation (EC) n. 1272/2008
 Regulation (EC) n. 790/2009 and (EU) no. 758/2013
 Regulation (EU) n. 2020/878
 Regulation (EU) n. 286/2011
 Regulation (EU) n. 618/2012
 Regulation (EU) n. 487/2013
 Regulation (EU) n. 944/2013
 Regulation (EU) n. 605/2014

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Regulation (EU) n. 2015/1221
 Regulation (EU) n. 2016/918
 Regulation (EU) n. 2016/1179
 Regulation (EU) n. 2017/776
 Regulation (EU) n. 2018/669
 Regulation (EU) n. 2018/521
 Regulation (EU) n. 2018/1480
 Regulation (EU) n. 2020/217
 Regulation (EU) n. 2020/1182
 Regulation (EU) n. 1107/2009
 Regulation (EU) n. 2021/643
 Regulation (EU) n. 2021/849
 Regulation (EU) n. 2022/692
 Regulation (EU) n. 2023/1434
 Regulation (EU) n. 2022/1435
 Regulation (EU) n. 2024/197

Directive 2012/18/EU**Named dangerous substances - ANNEX I** Not applicable**Seveso category E1** Hazardous to the Aquatic Environment**Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

CAS: 15245-12-2 Calcium Ammonium Nitrate

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/docs/list_of_competent_authorities_and_national_contact_points_en.pdf.

Department issuing data specification sheet: Product safety department.**Contact:**

Product safety department

SIPCAM OXON msds@sipcam.comFor Poison Centres in Europe see: <https://poisoncentres.echa.europa.eu>**Date of previous version:** 28.11.2022**Version number of previous version:** 4**Abbreviations and acronyms:**

EC 50: Effective concentration, 50 percent

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Sources

Document elaborated on the basis of the data required by the EC Regulation 1107/2009 (plant protection products) and in accordance with the EC Regulation 878/2020.

*** Data compared to the previous version altered.**

28.11.2022

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