

Safety data sheet

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

print: 23.01.2025

rev n°: 2 (replaces version 1)

Revision date: 23.01.2025

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

1.1 Product identifier

Trade name: *ARAW***kind of formulation:** *Capsule suspension (CS)***Article number:** *Not applicable***Registration number REACH:** *Not applicable.***UFI:** *UM83-4T09-A301-53AU*

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

Relevant use: *Agriculture.**Fungicide**Agrochemicals formulation.***Product category PC27:** *Plant protection products*

Application of the substance / the mixture

*Agricultural chemicals**Plant protection product*

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.com**E-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

*Eye Irrit. 2 H319 Causes serious eye irritation.**Skin Sens. 1 H317 May cause an allergic skin reaction.*

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



GHS07

Signal word: *Warning*

Hazard-determining components of labelling:

*Thymol**Geraniol**Eugenol*

Hazard statements

*H319 Causes serious eye irritation.**H317 May cause an allergic skin reaction.*

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Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

Additional information:

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: 106-24-1 EINECS: 203-377-1 Reg.nr.: 01-2119552430-49-xxxx	Geraniol	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥2.5-<10%
CAS: 89-83-8 EINECS: 201-944-8 Index number: 604-032-00-1 Reg.nr.: 01-2119511177-46-xxxx	Thymol	⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302	≥5-≤10%
CAS: 97-53-0 EINECS: 202-589-1 Reg.nr.: 01-2119971802-33-xxxx	Eugenol	⚠ Acute Tox. 3, H331; ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	≥2.5-<10%

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**

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

After inhalation

Supply fresh air and call for doctor for safety reasons.

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

After skin contact

If skin irritation continues, consult a doctor.

Instantly wash with water and soap and rinse thoroughly.

Instantly rinse with water.

After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.**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

Allergic reactions

Irritation of skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Seek the advice of a Poison Control Centre

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Treat symptomatically and supportively

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder. Fight larger fires with water spray or alcohol-resistant foam. Do not use a direct stream of water to extinguish.

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

Can be released in case of fire:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Protective equipment:

Wear full protective suit.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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 and provide sufficient ventilation

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;

Provide inhalation protection adapt to the product

Wear protective clothing, boots and glasses

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

Wear protective clothing.

6.2 Environmental precautions:

Do not allow to enter the ground/soil.

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.

Ensure adequate ventilation.

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

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Wear personal protective equipments (PPE).

The usual precautionary measures for handling chemicals shall be observed.

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Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.**Handling** Avoid direct or indirect contact with the product. Do not eat, drink or smoke while working.**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:

Protect from frost.

Keep container tightly sealed.

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 No further information available.**PNECs** No further information available.**Additional information:** The lists that were valid during the compilation were used as basis.**8.2 Exposure controls****Appropriate engineering controls** Eye wash stations shall be available in the work area.**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.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.



Breathing protection recommended in accordance with the relevant European Standards.

Recommended filter device for short term use: Filter P-SL**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**

Tightly sealed safety glasses in accordance with EN 166.

Body protection: Protective work clothing.

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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

Capsule suspension

Liquid

Colour:

Beige

Odour:

clove oil

Odour threshold:

Not determined.

Melting point/freezing point:

Not determined

Boiling point or initial boiling point and boiling range

Not determined

Flammability

The product is not flammable since it doesn't contain flammable solvents

Not applicable because the product is liquid

Lower and upper explosion limit
Lower:

Not applicable. The product doesn't have explosive/flammable properties

Upper:

Not applicable. The product doesn't have explosive/flammable properties

Flash point:

The product is not flammable since it doesn't contain flammable solvents

Auto-ignition temperature:

>100 °C (EU A.9)

Decomposition temperature:

Not determined.

pH at 20 °C

5.5 - 5.7 (CIPAC MT 75)

pH (undiluted sample)
Viscosity:
Kinematic viscosity at 20 °C

30 s (OECD 114 - 3mm ISO cup)

dynamic at 20 °C:

4800 - 286 mPas (0,5 - 100 rpm OECD 114)

Solubility
Water:

miscible

Partition coefficient n-octanol/water (log value)

Not determined.

Vapour pressure:

Not determined.

Density and/or relative density
Density at 20 °C

 1.035 g/cm³ (CIPAC MT 3.3.2)

Vapour density

Not determined.

9.2 Other information

Surface tension 38.9 mN/m at 20 °C (EEC A5)

Appearance:
Form:

Viscous liquid

Important information on protection of health and environment, and on safety.
Self-flammability:

Product is not selfigniting.

Explosive properties:

The product is not explosive (ASTM E537-02 DSC).

Change in condition
Softening point/range
Oxidising properties

Not an oxidiser

Evaporation rate

Not determined.

Information with regard to physical hazard classes

Explosives

The product is not explosive since it doesn't contain explosive component

Flammable gases

Not relevant due to the nature of the product, it doesn't not provide usefull informations

Aerosols

Not relevant due to the nature of the product, it doesn't not provide usefull informations

Oxidising gases

Not relevant due to the nature of the product, it doesn't not provide usefull informations

Gases under pressure

Not relevant due to the nature of the product, it doesn't not provide usefull informations

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Flammable liquids	The product is not flammable as it does not contain flammable solvents.
Flammable solids	Not relevant due to the nature of the product, it doesn't not provide usefull informations
Self-reactive substances and mixtures	Not relevant due to the nature of the product, it doesn't not provide usefull informations
Pyrophoric liquids	The product is not autoflammable as it does not contain autoflammable solvents.
Pyrophoric solids	Not relevant due to the nature of the product, it doesn't not provide usefull informations
Self-heating substances and mixtures	The product is not auto-flammable since it doesn't contain auto-flammable solvents
Substances and mixtures, which emit flammable gases in contact with water	Not relevant due to the nature of the product, it doesn't not provide usefull informations
Oxidising liquids	The product is non-oxidising as it contains no oxidising solvents
Oxidising solids	Not relevant due to the nature of the product, it doesn't not provide usefull informations
Organic peroxides	Not relevant due to the nature of the product, it doesn't not provide usefull informations
Corrosive to metals	Not relevant due to the nature of the product, it doesn't not provide usefull informations
Desensitised explosives	Not relevant due to the nature of the product, it doesn't not provide usefull informations

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 Protect from frost.

10.5 Incompatible materials: Oxidants

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 female) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 (4 h)	>2.28 mg/L (rat) (OECD 403 - massima concentrazione ottenibile)

CAS: 106-24-1 Geraniol

Oral	LD50	3,680 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

CAS: 89-83-8 Thymol

Oral	LD50	980 mg/kg (rat)
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CAS: 97-53-0 Eugenol

Oral	LD50	1,930 mg/kg (rat)
Inhalative	LC50 (4 h)	2.58 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)
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CAS: 97-53-0 Eugenol

Irritation of skin	Skin corrosion	(rabbit) (25 h - Draize Test)
		grave irritante

Serious eye damage/irritation Causes serious eye irritation.**Serious eye damage / Irritation - Test**

Irritation of eyes	Eye Irritation	(rabbit) (OECD 405)
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Respiratory or skin sensitisation May cause an allergic skin reaction.**Sensitisation - Test**

Sensitization	(guinea pig) (OECD 429 - EEC B42)
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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:**

Likely routes of exposure:

contact with skin and eyes

inhalation

For symptoms and effects see section 4.

Additional toxicological information:**Acute effects (acute toxicity, irritation and corrosivity)** No further information available.**CMR effects (cancerogenity, mutagenicity and toxicity for reproduction)** No relevant information available.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:**

LC50 (96h)	31.1 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>)) (OECD 203)
EC50 (48h)	35.4 mg/L (<i>Daphnia magna</i>) (OECD 202)
EbC50 (72h)	65.2 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (OECD 201)
NOEC	32 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (72 h)
	25 mg/L (<i>Daphnia magna</i>)
	12.5 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>))

CAS: 106-24-1 Geraniol

LC50 (96h)	11.6 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>)) (OECD 203)
EC50 (48h)	16.1 mg/L (<i>Daphnia magna</i>) (OECD 202)
EyC50 (72h)	10.3 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (OECD 201)

CAS: 89-83-8 Thymol

LC50 (96h)	3 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>)) (OECD 203)
EC50 (48h)	4.9 mg/L (<i>Daphnia magna</i>) (OECD 202)
EyC50 (72h)	4.89 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (OECD 201)

CAS: 97-53-0 Eugenol

LC50 (96h)	≥10 mg/L (rainbow trout (<i>oncorhynchus mykiss</i>)) (OECD 203)
EC50 (48h)	1.11 mg/L (<i>Daphnia magna</i>) (OECD 202)
EbC50 (72h)	10 mg/L (algae <i>Pseudokirchneriella subcapitata</i>) (OECD 201)

Environmental toxicity

Oral	LD 50	>10,000 mg/kg bw (<i>Colinus virginianus</i>) (EFSA Guidance Document - Tossicità acuta)
		≥1,000 mg/kg bw (earthworms, <i>Eisenia foetida</i>) (14 d)
Dermal	LD 50	>224.6 µg/bee (bee (<i>Apis mellifera</i>)) (48 h)
	LD 50	>200 µg/bee (bee (<i>Apis mellifera</i>)) (48 h)

12.2 Persistence and degradability No further relevant information available.

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12.3 Bioaccumulative potential

 Due to the distribution coefficient *n*-octanol/water an accumulation in organisms is not expected.

CAS: 106-24-1 Geraniol

Octanol / Water partition coefficient	3.8
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CAS: 89-83-8 Thymol

Octanol / Water partition coefficient	3.97
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CAS: 97-53-0 Eugenol

Octanol / Water partition coefficient	2.39
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12.4 Mobility in soil Since the product is highly volatile and readily biodegradable, the mobility is not measurable.

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.

Additional ecological information:
General notes: Danger to drinking water if even small quantities leak into soil.

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.

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA	Void
	Not applicable
ADN	Not applicable

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA	Void
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14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA	Void
Class	Void

14.4 Packing group

ADR/RID/ADN, IMDG, IATA	Void
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14.5 Environmental hazards:

Marine pollutant:	No
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14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

UN "Model Regulation":

Not regulated

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

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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
 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

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

None of the ingredients is listed.

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.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

In case of emergency, contact your local Poison Centre through Global Health Observatory data on

http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/A list of European Poison Centres is available on http://ec.europa.eu/growth/sectors/chemicals/poison-centres/index_en.htm

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.

Bibliographic sources:

- ECHA database
- HSDB in Pubchem
- Pesticide properties database
- Pesticide manual
- Internal company documents

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>

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Date of previous version:

20.11.2023

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Version number of previous version: 1**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**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**ELINECS: 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**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3***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.**

20.11.2023

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