Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

COMBI 70 PLUS

Revision date 31/03/2023 Version 2.0

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

1.1. Product identifier

Trade name: COMBI 70 PLUS

Trade code: 678410

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

Recommended use: Trace element for agriculture.

1.3. Details of the supplier of the safety data sheet

Supplier: QUIMOPROX, S.L.

Street: Pol. Ind. Can Magre – C/ Carles Buhigas, nave 80

Postal code/city: 08187 Sta. Eulalia de Ronçana - Barcelona

Country: SPAIN

Telephone: (34).93.844.66.94

E-mail (competent person): quimoprox@quimoprox.com

1.4. Emergency telephone number

In case of emergency +34 91 114 25 20

Posion Center +34 91 562 04 20

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 [CLP]:

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

2.2. Label elements

Labelling according to Regulation (EC) N° 1272/2008 [CLP]:

Hazard symbols:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description: Metallic complexes of EDTA and HGA.

Hazardous ingredients:

Classification according to Directive 67/548/EEC / Classification according to Regulation (EC) No. 1272/2008 [CLP]

>= 1% - < 3% Copper complex of ethylenediam inetetraacetic acid

CAS: 14025-15-1, EC: 237-864-5

Xn,Xi; R22-36

3.1/4/Oral Acute Tox. 4 H302

3.3/2 Eye Irrit. 2 H319

Substances SVHC: No.

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

After inhalation:

No special measures are necessary.

Following skin contact:

Subsequently wash off with: Water.

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion: Rinse mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed

Skin irritation.

Eye Irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet.

Dry extinguishing powder.

Foam.

Carbon dioxide (CO2).

Unsuitable extinguishing media: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon dioxide (CO2).

Carbon monoxide (CO).

Nitrogen oxides (NOx).

Hydrogen chloride (HCl).

5.3. Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Collect contaminated fire extinguishing water separately. Do not allow to enter drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Personal protection equipment: see section 8.

For emergency responders:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Cover drains.

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

Ensure waste is collected and contained.

In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Cover drains.

For cleaning up:

Pick up shovel.
Collect in closed and suitable containers for disposal.
Wash with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7.
Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures:

Personal protection equipment: see section 8.
Fire prevention measures:
No special fire protection measures are necessary.

Advices on general occupational hygiene:

When using do not eat, drink, smoke, sniff.
Wash hands before breaks and after work.
Used working clothes should not be worn outside the work area.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Requirements for storage rooms and vessels:
Suitable container/equipment material:
Glass.
Varnished iron.
Stainless steel.
Polyethylene (PE).
Aluminium.
Unsuitable container/equipment material: Iron.
Suitable floor material:
The floor should be leak tight, jointless and not absorbent.
Acid-resistant.
Fire prevention measures:
No special fire protection measures are necessary.

Hints on joint storage:

Do not store together with: Strong oxidising agents.

Further information on storage conditions:

Recommended storage temperature: At room temperature.

7.3. Specific end use(s)

Identified use: see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values
No data available.
PNEC-values
Copper complex of ethylenediaminetetraacetic acid - CAS: 14025-15-1
PNEC aquatic, freshwater: 2.95 mg/l - Source: ECHA (European Chemicals Agency)
PNEC aquatic, marine water: 0.3 mg/l - Source: ECHA (European Chemicals Agency)
PNEC aquatic, intermittent releases: 1.09 mg/l - Source: ECHA (European Chemicals Agency)
PNEC sewage treatment plant (STP): 65.4 mg/l - Source: ECHA (European Chemicals Agency)
PNEC soil, freshwater: 0.21 mg/kg - Source: ECHA (European Chemicals Agency)
DNEL-values
Copper complex of ethylenediaminetetraacetic acid - CAS: 14025-15-1

DNEL worker: DNEL long-term inhalative (systemic): 1.8 mg/m3 - Source: ECHA (European Chemicals Agency)
DNEL worker: DNEL long-term dermal (systemic): 3750 mg/kg bw/d - Source: ECHA (European Chemicals Agency)
DNEL consumer: DNEL long-term inhalative (systemic): 0.45 mg/m3 - Source: ECHA European Chemicals Agency).
DNEL consumer: DNEL long-term dermal (systemic): 1875 mg/kg bw/d - Source: ECHA (European Chemicals Agency)
DNEL consumer: DNEL long-term inhalative (systemic): 0.375 mg/kg bw/d - Source: ECHA (European Chemicals Agency)

8.2. Exposure controls

Appropriate engineering controls:

See chapter 7. No additional measures necessary.

Personal protective equipment:

Eye/face protection: Goggles (DIN 166).

Skin protection:

Hand protection:

Chemical resistant protective gloves (DIN EN 374).

The product

Suitable material: Butyl caoutchouc (butyl rubber) By long-term hand contact
Suitable material: NBR (nitrile rubber) By long-term hand contact
Suitable material: PVC (polyvinyl chloride) By long-term hand contact
Suitable material: NR (natural rubber, natural latex) By short-term hand contact

Body protection:

Wearing of fully sealed work clothing is recommended.

Chemical protection clothing.

Chemical resistant safety shoes.

Respiratory protection:

Usually no respiratory personal protective equipment is required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Powder.
Colour:	Red Brown.
Odour:	Odourless.
Odour threshold:	No data available.
pH value	ca. 7 5 % in aqueous solution at °C: 20 (NFT 01-013)
Melting point / melting range	No data available.
Boiling temperature / boiling range	No data available
Flash point	>100 °C
Vapourisation rate / Evaporation rate	No data available.
Relative vapour density at 20 °C (air=1)	No data available.
Solubility:	
Water solubility:	Soluble
Partition coefficient n-octanol/water (log P O/W)	No data available.

Self ignition temperature >200 ° C
Decomposition temperature >150 °C
Explosive properties Yes

Maximum explosion pressure: 6.1 bar g (DIN EN 14034-1)
KSt-value: 70 bar.m/s (DIN EN 14034-2)
Dust explosive, Dust explosion category: ST 1.

Oxidizing power No

9.2. Other information

Bulk density: ca.0.65 g/cm3

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reaction when stored and handled according to instruction.

10.4. Conditions to avoid

Decompostion takes place from temperatures above: 150 °C

See section 7.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Except particular informations, the toxicological effects of product are assessed by the conventionnal method described in Annex II of Directive 1999/45/EC which take in consideration all health hazards of substances contained in the product.

The product

Acute oral toxicity - Test: LD50 Rat > 2000 mg/kg bw/day - Method: Estimation - Assessment: Not classified.

Skin corrosion / Irritation - Method: Estimation - Assessment: Not an irritant. Eye damage / irritation - Method: Estimation - Assessment: Not an irritant.

Copper complex of ethylenediaminetetraacetic acid - CAS: 14025-15

Acute oral toxicity - Test: LD50 Rat = 890 mg/kg - Method: OECD 403 - Source: ECHA (European Chemicals Agency) - Assessment: Harmful.

Acute inhalation toxicity - Test: LC50 Rat > 5.30 g/m3 4 h - Method: OECD 436 - Source: ECHA (European Chemicals Agency) - Assessment: Not classified.

Acute dermal toxicity - Test: LD50 Rat > 2000 mg/kg - Method: OECD 402 - Source: ECHA (European Chemicals Agency) - Notes: The statement is derived from products of similar structure or composition - Assessment: Not classified.

Skin corrosion / Irritation Rabbit - Source: ECHA (European Chemicals Agency) - Assessment: Slightly irritant but not relevant for classification.

Eye damage / irritation Rabbit - Method: OECD 405 - Source: ECHA (European Chemicals Agency) - Assessment: Irritant.

Skin sensitisation - Method: OECD 429 - Source: ECHA (European Chemicals Agency) - Assessment: Not sensitising.

Specific target organ toxicity (repeated exposure) - Test: NOEL(C) oral Rat = 150 mg/kg bw/day 90 d - Method: OECD 408 - Source: ECHA (European Chemicals Agency) - Assessment: Target organs: liver and kidneys.

Germ cell mutagenicity / Genotoxicity - Test: Gene-mutations microrganisms in vitro mutagenicity Salmonella typhimurium - Method: OECD 471 (Ames test) - Source: ECHA (European Chemicals Agency) - Assessment: No mutagenic.

Germ cell mutagenicity / Genotoxicity - Test: Gene-mutations mammalian cells in vitro mutagenicity Human lymphocytes - Method: OECD 487 - Source: ECHA (European Chemicals Agency) - Assessment: Evidence for in vitro mutagenicity.

Germ cell mutagenicity / Genotoxicity in vivo mutagenicity - Source: ECHA (European Chemicals Agency) - Notes: The statement is derived from products of similar structure

or composition - Assessment: No experimental evidence of in vivo mutagenicity exist.
Carcinogenicity - Source: ECHA (European Chemicals Agency) - Notes: The statement is derived from products of similar structure or composition - Assessment: No experimental evidence of carcinogenicity exist.
Adverse effects on sexual function and fertility - Test: NOAEL(C) oral Rat > 500 mg/kg bw/day - Method: OECD 422 - Source: ECHA (European Chemicals Agency) -Assessment: No experimental evidence of effect on reproductive capacity.
Adverse effects on developmental toxicity - Test: NOAEL(C) oral Rat > 500 mg/kg bw/day - Method: OECD 422 - Source: ECHA (European Chemicals Agency) -Assessment: No experimental evidence of teratogenicity.

SECTION 12: Ecological information

Except particular informations, the ecotoxicological effects of product are assessed by the conventionnal method described in Annex III of Directive 1999/45/EC.

12.1. Toxicity

Copper complex of ethylenediaminetetraacetic acid - CAS: 14025-15-1

Acute (short-term) fish toxicity - Endpoint: LC50 = 555 mg/L - Duration h: 96 h - Species: Lepomis macrochirus (Bluegill) - Source: ECHA (European Chemicals Agency)

Acute (short-term) daphnia toxicity - Endpoint: CE50 = 100 mg/L - Duration h: 48 h - Species: Daphnia magna (Big water flea) - Method: OECD 202 - Source: ECHA (European Chemicals Agency) - Notes: The statement is derived from products of similar structure or composition

Acute (short-term) fish toxicity - Endpoint: CE50 = 649.3 mg/L - Duration h: 72 h - Species: Pseudokirchneriella subcapitata - Method: OECD 201 - Source: ECHA (European Chemicals Agency) - Notes: The statement is derived from products of similar structure or composition

Overall evaluation:

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

12.2. Persistence and degradability

The product

Biodegradation - Method: estimation - Assessment: eadily biodegradable (according to OECD criteria).

Copper complex of ethylenediaminetetraacetic acid - CAS: 14025-15-1

Abiotic degradation in water - Test: Photolysis in water < 24 h - Source: ECHA (European Chemicals Agency) - Notes: The statement is derived from products of similar structure or composition

Biodegradation - Source: ECHA (European Chemicals Agency) - Notes: The statement is derived from products of similar structure or composition - Assessment: Moderately / partially biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

Known or predicted distribution to environmental compartments:

No data available.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

The product does not contain organically bound halogen.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Packaging which cannot be cleaned should be disposed of as the product contents.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

No data available.

14.3. Transport hazard class(es)

No data available.

14.4. Packing group

No data available.

14.5. Environmental hazards

IMDG-Marine pollutant: No

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Environmental Pollutant:

No

SECTION 15: Regulatory information

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

Volatile organic compounds (VOC) content in percent by weight: 0 %(calculated)

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles - Annex XVII to Regulation (EC) No 1907/2006: No.

Water hazard class (WGK): Low hazard to water.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of phrases referred to in Section 3:

R22 Harmful if swallowed.
R36 Irritating to eyes.
R60 May impair fertility.
R61 May cause harm to the unborn child.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H360 May damage fertility or the unborn child.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.