
SAFETY DATA SHEET

Revision No. : 2.0

Revision Date : 2018-06-19

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

1.1. Product identifier

Trade name : COP-400
EC No. : not given yet
REACH Registration No. : not registered yet for this substance as it is exempted from registration, the annual tonnage does not require a registration.
CAS No. : 12158-74-6

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

Relevant identified uses : Consumer use
Uses advised against : none
Reason why use advised against : none

1.3. Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier : NANOCMS CO., LTD.
Street address/P.O. Box : 48, 4Sandan-4ro,
Jiksan-eup, Seobuk-gu,
Cheonan-si, Chungcheongnam-do,
Republic of Korea
Country ID/Postcode/Place : KR / 331-814
Telephone number : +82-41-587-3901/2 (telefax number: +82-41-587-3905)
e-mail address of competent person responsible for the SDS : michael-kim@nanocms.co.kr
National contact : none

1.4. Emergency telephone number

Emergency telephone number : +82-41-587-3901/2
Opening hours (only available during the office hours) : AM9~PM6 (KST)
PM6~AM3 (GMT)
Other comments (language(s) of the phone service) : English

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SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

Acute Toxicity - Oral (Category 4)

Specific Target Organ Toxicity – Single exposure (Category 3)

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms

:



Signal words

: Warning

Hazard statements

: H302 Harmful if swallowed

H335 May cause respiratory irritation.

Precautionary statements

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

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P301+P312:

IF SWALLOWED: Call a POISON CENTER/
doctor/.../if you feel unwell

P304+P340:

IF INHALED: Remove person to fresh air and
keep comfortable for breathing.

P330: Rinse mouth.

P403+P233: Store in a well-ventilated place. Keep
container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container to ...

Supplemental Hazard information (EU)

: not applicable

Not a hazardous substance according to GHS.

2.2.2. Labelling according to Directive 67/548 EEC or 1999/45 EC

This substance is not dangerous according to Directive 67/548 EEC or 1999/45 EC.

2.3. Other hazards

2.3.1. The criteria for according to Regulation (EC) No. 1907/2006, Annex XIII

PBT and vPvB assessment are not available as chemical safety assessment is not required.

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance

Product identifier type in accordance with Article 18(2) of Regulation (EC) No. 1272/2008	Identifier number	Chemical Characterisation	Weight % content (or range)	EC Number
CAS number and CA Index Name	12158-74-6	HCu ₂ O ₅ P	Above 97%	-

SECTION 4. First aid measures

4.1. Description of first aid measures

general notes	: Consult a physician. Show this safety data sheet to the doctor in attendance.
if inhaled	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
in case of skin contact	: Wash off with soap and plenty of water. Consult a physician.
in case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
if swallowed	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
self-protection of the first aider	: not data available

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

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SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Oxides of phosphorus, Copper oxides

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information : The product itself does not burn.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic.

7.3. Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

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SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance	: Form - Powder
(b) Odour	: no data available
(c) Odour threshold	: no data available
(d) pH	: no data available
(e) Melting point	: no data available
(f) Initial boiling point and boiling range	: no data available
(g) Flash point	: not applicable
(h) Evaporation rate	: no data available
(i) Flammability	: no data available
(j) Upper/lower flammability or explosive limits	: no data available
(k) Vapour pressure	: no data available
(l) Vapour density	: no data available
(m) Relative density	: no data available
(n) Water solubility(ies)	: no data available
(o) Partition coefficient (n-octanol/water)	: no data available
(p) Auto-ignition temperature	: no data available
(q) Decomposition temperature	: no data available
(r) Viscosity	: not applicable
(s) Explosive properties	: no data available
(t) Oxidizing properties	: no data available

9.2 Other information

Particle size distribution	: no data available
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SECTION 10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire : see section 5

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute Oral Toxicity	: LD50 300 - 2 000 mg/kg bw (mouse)
Acute Skin Irritation/Corrosion	: no data available
Acute Eye Irritation/Corrosion	: no data available
Skin Sensitization	: no data available
Bacterial Reverse Mutation Test	: no data available
Specific target organ toxicity - single exposure	: Inhalation - May cause respiratory irritation.

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SECTION 12. Ecological information

12.1 Toxicity

Acute (short-term) Toxicity Test

Freshwater Alga and Cyanobacteria, Growth Inhibition Test : no data available

Daphnia sp. Acute Immobilisation Test : no data available

12.2 Persistence and degradability

Ready Biodegradability : no data available

12.3 Bioaccumulative potential

Partition Coefficient (n-octanol /water) : no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment are not available as chemical safety assessment is not required.

12.6 Other adverse effects

no data available

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging : Dispose of as unused product.

Further information : Provisions relating to waste:
EC Directive 2008/98/EC
Regulation No. 1013/2006

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SECTION 14. Transport information

14.1. UN number

ADR/RID : -	IATA: -	IMDG : -
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14.2. UN proper shipping name

ADR/RID	: Not dangerous goods	
IATA	: Not dangerous goods	
IMDG	: Not dangerous goods	

14.3. Transport hazard class(es)

ADR/RID : -	IATA: -	IMDG : -
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14.4. Packing group

ADR/RID : -	IATA: -	IMDG : -
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14.5 Environmental hazards

ADR/RID : -	IATA: -	IMDG : -
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14.6 Special precautions for user

no data available.

SECTION 15. Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other inventory information

Note : Because of the potential specific inventory listing of components of this product line, further, more detailed information can be requested from NANOCMS CO., LTD.

Toxic Substance Control Act (TSCA) Inventory	: not registered
European Inventory of Existing Chemical Substances (EINECS)	: not registered
European Inventory of Notified Chemical Substances (ELINCS)	: not registered
Korea Existing Chemical List (KECL)	: not registered

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

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SECTION 16. Other information

Issued date	: 2017-04-26
Revision No.	: 2.0
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Indication of changes	: for applying Regulation (EC) No. 1272/2008 [CLP]

Abbreviations and acronyms :

EC	European Community
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging of Substance and Mixtures
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
OECD	Organization for Economic Co-operation and Development
UN	The United Nations
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

Key literature references and sources for data

Chemical Abstracts Service
Korea Testing & Research Institute
Korea Institute of Toxicology
Biototech Company Limited
Korea Polymer Testing & Research Institute
Korea MSDS Testing Laboratory

Further information

This Safety Data Sheet was prepared sincerely on the basis of the knowledge and information we could obtained. But any warranty shall not be given regarding properties of the product. It is designed only as guidance. Some new information or amendments may be added afterwards. NANOCMS Corporation Limited shall not be held liable for any damage resulting from handling or from contact with the above product.