SAFETY DATA SHEET

according to Regulation (EC) No 1272/2008 (CLP)

Copper hydroxide 96% TC

Shanghai Bosman Industrial Co., Limited

Product name	**Copper hydroxide 96% TC**	**SDS number**	**BM-SDS-0427**
Version	**1.0**	**Revision date**	**19 November 2026**
Supersedes	**First issue**	**Print date**	**19 November 2026**
Language	**EN**	**Format**	**GHS / CLP - 16 sections**

Technical draft - QC / regulatory sign-off required before commercial issue. Values tagged COA are batch MEASUREMENTS from the supplied certificate, not product guarantees. Values tagged ECHA / PUBCHEM / FAO-IPCS describe the ACTIVE SUBSTANCE or copper ion, not our batch; they are contextual reference only. Items marked OPEN are not estimated. The chronic-aquatic category difference between our legacy SDS and the harmonised CLP entry, and the unassigned transport classification, are shown openly for sign-off.

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	Copper hydroxide 96% TC [COA]
Product type	Technical material (TC) - active substance (fungicide); CAS 20427-59-2 [COA/ECHA]
Active substance	Copper hydroxide (copper dihydroxide); CAS 20427-59-2; EC 243-815-9; Index 029-021-00-3 [ECHA/PUBCHEM]

1.2 Relevant identified uses and uses advised against

Identified use	Technical material / active substance intended for further formulation into copper-based fungicide products; not for direct application [SDS].
Uses advised against	Any use other than the identified use; not for domestic use; not on crops or sites other than the approved label. [SDS]

1.3 Details of the supplier of the safety data sheet

Supplier	Shanghai Bosman Industrial Co., Limited (上海晓博国际贸易有限公司) [SDS]
Address	No. 1611, North Sichuan Road, Hongkou District, Shanghai 200080, P.R. China [SDS]
Telephone	+86 21 6306 5878 [SDS]
Fax	+86 21 6306 5878 [SDS]
E-mail	info@bosmangroup.com [SDS]
Website	www.bosmangroup.com [SDS]

1.4 Emergency telephone number

Emergency	Contact your local poisons information centre / emergency services (120 in mainland China) [OPEN: dedicated line not stated]

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP), Annex VI harmonised entry for copper dihydroxide [ECHA]. Signal word: DANGER. [ECHA]

H-code	Hazard statement
H330	Acute toxicity, inhalation, Category 2 - Fatal if inhaled. [ECHA]
H302	Acute toxicity, oral, Category 4 - Harmful if swallowed. [ECHA]
H318	Serious eye damage, Category 1 - Causes serious eye damage. [ECHA]
H400	Hazardous to the aquatic environment, acute, Category 1 - Very toxic to aquatic life. [ECHA]
H410	Hazardous to the aquatic environment, chronic, Category 1 - Very toxic to aquatic life with long lasting effects. [ECHA]

Classification follows the CLP Annex VI harmonised entry for copper dihydroxide (Index 029-021-00-3) [ECHA], and matches the classification in our SDS v1.0 §3 (which listed chronic aquatic Cat 2/H411; the current harmonised entry is chronic Cat 1/H410 - the harmonised value is used and the historical difference is noted). Signal word Danger; M-factor 10 for acute and chronic aquatic hazard [ECHA/RAC].

2.2 Label elements



SIGNAL WORD

DANGER

Pictograms: official UN GHS symbols (red diamond / white field / black symbol), UNECE GHS standard as distributed by PubChem (NIH) and held in our GHS asset library; selected per CLP Annex VI classification [ECHA]. GHS05 (Eye Dam. 1, H318), GHS06 (Acute Tox. 2 inhalation, H330), GHS09 (Aquatic Acute/Chronic 1).

Hazard statements	Wording
H330	Fatal if inhaled. [ECHA]
H302	Harmful if swallowed. [ECHA]
H318	Causes serious eye damage. [ECHA]
H400	Very toxic to aquatic life. [ECHA]
H410	Very toxic to aquatic life with long lasting effects. [ECHA]

Supplemental hazard statement EUH401 applies to the authorised plant-protection product: to avoid risks to human health and the environment, comply with the instructions for use. Confirm from the national label [OPEN].

Precautionary statements - Prevention

Code	Statement
P260	Do not breathe dust, fume or mist.
P264	Wash hands, face and exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P284	Wear respiratory protection.

Precautionary statements - Response

Code	Statement
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P391	Collect spillage.

Precautionary statements - Storage

Code	Statement
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary statements - Disposal

Code	Statement
P501	Dispose of contents and container to a licensed hazardous-waste contractor per local/regional/national/international regulation.

2.3 Other hazards

Very toxic to aquatic life with long-lasting effects (H400/H410, M=10) [ECHA]. Copper dust or mist may cause metal-fume fever [FAO-IPCS]. Endocrine-disrupting properties: no conclusion located [OPEN]. Product category / registered use must be confirmed from the approved national label [OPEN].

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is a substance (technical material, TC) consisting of copper hydroxide at not less than 96% w/w [COA].

Component	CAS No.	EC No.	Index No.	Concentration	Classification (CLP)
Copper hydroxide	20427-59-2	243-815-9	029-021-00-3	>= 96% TC	Acute Tox. 2 (H330); Acute Tox. 4 (H302); Eye Dam. 1 (H318); Aquatic Acute 1 (H400); Aquatic Chronic 1 (H410) [ECHA]

COA batch impurities: Cd <=0.001 %, As <=0.01 %, Pb <=0.02 %, water <=1.0 %, HCl insolubles <=0.2 % [COA]. Full impurity profile and relevant-impurity declaration not available [OPEN]. The supplied COA photo lists the impurity item as 'Cu(Cb)' with limit <=0.001 and result 0.0007. This is a spelling/scanning error for Cd (cadmium): our authoritative English COA for the same 96% TC grade lists 'Cd, % <=0.001 / 0.0007' with the identical value set. It is recorded as Cd and the defect is flagged for correction at source.

3.2 Mixtures

Not applicable - this product is not a formulated mixture.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Move out of contaminated area. Show this safety data sheet to the doctor in attendance. Never give anything by mouth to an unconscious person. [SDS]
After inhalation	Move to fresh air and keep at rest; if breathing is irregular or stopped administer artificial respiration; call a physician. [SDS]
After skin contact	Remove contaminated clothing immediately; wash skin thoroughly with soap and plenty of water; seek advice if irritation develops. [SDS]
After eye contact	Rinse cautiously with water for at least 15 minutes with eyelids open; remove contact lenses if easy; get medical advice - serious eye damage is classified (H318). [SDS/ECHA]
After ingestion	Rinse mouth; do not induce vomiting; never give anything by mouth to an unconscious person; seek medical attention. [SDS]

4.2 Most important symptoms and effects, acute and delayed

Ingestion: nausea, vomiting, abdominal pain and diarrhoea; large doses cause GI corrosion, hepatic and renal damage, CNS effects [FAO/IPCS]. Inhalation of dust/mist: respiratory irritation, metal-fume fever (chills, fever, myalgia) [FAO/IPCS]. Eye: serious damage [ECHA]. [SDS/FAO-IPCS]

4.3 Immediate medical attention and special treatment

Treat symptomatically and supportively. No specific antidote is documented for copper hydroxide; in significant copper ingestion, gastric decontamination and clinical monitoring of liver, kidney and blood are advised by poison centres; chelating agents are of unproven value. Seek poison-centre guidance. [FAO-IPCS]

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable media	Water spray, dry powder, foam, carbon dioxide. [SDS]
Unsuitable media	Do not use a solid water stream - may scatter dust and spread contamination. [SDS]

5.2 Special hazards arising from the substance

The substance is non-flammable but decomposes on heating with loss of water, forming black copper(II) oxide and toxic copper fumes [PUBCHEM]. Closed containers may rupture in fire. [SDS]

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing. Contain fire water run-off; do not allow entry to drains or watercourses. Cool closed containers with water spray. [SDS]

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear PPE (Section 8); avoid breathing dust/mist; avoid skin/eye contact; ensure adequate ventilation. [SDS]

6.2 Environmental precautions

Do not allow entry to drains, sewers, watercourses or groundwater; the product is very toxic to aquatic life (H400/H410). Notify authorities if released. [SDS/ECHA]

6.3 Methods and material for containment and cleaning up

Sweep up or absorb with inert material (sand, earth, vermiculite) without creating dust; place in a labelled closed container; wash the area with water and detergent; prevent drain entry. [SDS]

6.4 Reference to other sections

See Section 8 for personal protection and Section 13 for disposal. [SDS]

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

- Keep containers tightly closed and labelled; handle in well-ventilated areas away from food, feed and drinking water. [SDS]
- Avoid dust formation and breathing dust/mist; use local exhaust ventilation; avoid contact with eyes, skin and clothing; wash hands after handling; do not eat, drink or smoke in the handling area [SDS]. [SDS]
- Avoid release to the environment. Do not clean equipment or empty containers near water or drains. [SDS]

7.2 Conditions for safe storage, including incompatibilities

- Store in a cool, dry, well-ventilated area in tightly closed original containers, protected from heat and direct sunlight, away from food, feed and drinking water [SDS]. [SDS]
- Keep locked up and out of reach of children and unauthorised persons. [SDS]
- Strong acids, strong bases and strong oxidising agents; keep away from food, feed and drinking water [PUBCHEM/SDS]. [SDS/PUBCHEM]

7.3 Specific end use(s)

Technical material / active substance intended for further formulation into copper-based fungicide products; not for direct application [SDS].

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	Limit value	Basis
Copper dust and mist (as Cu)	1.0 mg Cu/m3 (TLV-TWA)	ACGIH [FAO/IPCS]
Copper hydroxide 96% TC	No product-specific OEL established	Apply good occupational hygiene and Section 8 measures [SDS/OPEN]

8.2 Exposure controls

Use only in well-ventilated areas, preferably under local exhaust ventilation; avoid generating dust or mist. [SDS]

Protective equipment	Requirement
Eye protection	Tight-fitting protective goggles (EN 166); eye/face protection given serious eye damage (H318). [SDS/ECHA]
Skin protection - hands	Chemical-resistant gloves (e.g. nitrile, EN 374); replace when contaminated. [SDS]
Skin protection - body	Long-sleeved clothing, closed footwear and protective overall where dust is generated. [SDS]
Respiratory protection	Approved particle-filter respirator (e.g. FFP2/FFP3) where dust may exceed the exposure limit; H330 applies to the active substance. [SDS/ECHA]

Do not eat, drink or smoke in work areas. Wash hands and face thoroughly after handling and before eating, drinking or smoking. Remove and wash contaminated clothing before reuse. [SDS]

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Value
Physical state	Solid; blue to blue-green gel or light blue crystalline powder [COA/PUBCHEM]
Colour / appearance	Blue powder [COA]; observed Blue powder (22 May 2022 sample) [COA]
Odour	Odourless [PUBCHEM] [PUBCHEM]
pH	6.5 - 11 (supplied COA specification); measured 9.06 [COA]
Water content	<= 1.0 % specification; measured 0.50 % [COA]
Melting point / decomposition	Decomposes at melting point with loss of water [PUBCHEM]; no true boiling point [PUBCHEM]
Boiling point	Not applicable - decomposes before boiling [PUBCHEM] [PUBCHEM]
Flash point	Not applicable - inorganic non-flammable solid [OPEN]
Density	3.37 g/cm3 at 25 C [PUBCHEM, Merck Index] [PUBCHEM]
Vapour pressure	Not applicable - inorganic non-volatile solid [PUBCHEM]; copper not volatile at ambient temperature [ECHA-RAC] [PUBCHEM/ECHA-RAC]
Water solubility	Water: very low / practically insoluble (computer-predicted; no reliable measured value located) [PUBCHEM/OPEN]. Soluble in acids, concentrated alkali and ammonia; insoluble in organic solvents [PUBCHEM, Merck Index/CRC]. [PUBCHEM/OPEN]
Solubility in organic solvents	Insoluble in organic solvents; soluble in acids, concentrated alkali and ammonia [PUBCHEM]
Partition coefficient (log Kow)	Not applicable - inorganic substance; log Pow not a meaningful descriptor [PUBCHEM] [PUBCHEM]
Auto-ignition temperature	Not applicable / OPEN
Decomposition temperature	Decomposes on heating with loss of water; may form black copper(II) oxide [PUBCHEM] [PUBCHEM]
Explosive properties	Not classified as explosive [ECHA]
Oxidising properties	Not classified as oxidising [ECHA]
Particle characteristics	Wet sieve 325 mesh, qualified [COA] [COA]

9.2 Other information

Our SDS v1.0 §9 marks several phys-chemical fields 'Not determined'. In this revision the missing fields are filled from PubChem/HSDB, Merck Index, CRC Handbook and ECHA at the ACTIVE-SUBSTANCE level, with source tags. These public values are contextual reference only, NOT batch measurements or specification guarantees for our 96% TC. Where no reliable value exists the item stays OPEN.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous polymerisation expected; contact with incompatible materials may generate heat or hazardous fumes [SDS]. [SDS]

10.2 Chemical stability

Stable under recommended storage; may decompose to black copper(II) oxide on standing or heating depending on preparation method [PUBCHEM]. [PUBCHEM/SDS]

10.3 Possibility of hazardous reactions

No hazardous polymerisation expected; contact with incompatible materials may generate heat or hazardous fumes [SDS]. [SDS]

10.4 Conditions to avoid

Heat and temperatures near decomposition; direct sunlight; prolonged storage [PUBCHEM/SDS]. [PUBCHEM/SDS]

10.5 Incompatible materials

Strong acids, strong bases and strong oxidising agents; keep away from food, feed and drinking water [PUBCHEM/SDS]. [SDS/PUBCHEM]

10.6 Hazardous decomposition products

On heating/decomposition may form black copper(II) oxide and toxic copper fumes [PUBCHEM/SDS]. [PUBCHEM/SDS]

11 TOXICOLOGICAL INFORMATION

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

Endpoint	Result / study basis	Source
Acute oral LD50 - rat	No reliable copper-hydroxide-specific measured value located; copper salts oral LD50 (copper sulphate) ~300 mg/kg rat [FAO/IPCS]. Acute Tox. 4 / H302 [ECHA]	FAO/IPCS + ECHA/OPEN
Acute inhalation	Fatal if inhaled - Acute Tox. 2 / H330 (harmonised) [ECHA]; copper dust/mist exposure can cause metal-fume fever [FAO/IPCS]	ECHA + FAO/IPCS
Acute dermal LD50	No reliable value located; not classified for acute dermal toxicity in the harmonised entry [ECHA]	ECHA/OPEN
Serious eye damage	Eye Dam. 1 / H318 - causes serious eye damage [ECHA]	ECHA
Human fatal dose	Copper hydroxide ~200 mg/kg bodyweight (fatal oral dose, cited by FAO/WHO JECFA) [FAO/IPCS]	FAO/IPCS
Occupational exposure limit	ACGIH TLV-TWA (copper dust and mist, as Cu): 1.0 mg Cu/m3 [FAO/IPCS]	FAO/IPCS
Mode of action	Copper is an essential element under homeostatic control; excess causes GI irritation/corrosion, hepatic and renal damage, haemolysis [FAO/IPCS]	FAO/IPCS
ADI / ARfD	Copper ADI context in JECFA monograph; product-specific ADI/ARfD not located [FAO/IPCS/OPEN]	FAO/IPCS/OPEN

Classification: Acute Tox. 2 (H330); Acute Tox. 4 (H302); Eye Dam. 1 (H318); Aquatic Acute 1 (H400); Aquatic Chronic 1 (H410) [ECHA].

11.2 Symptoms and effects

Ingestion: nausea, vomiting, abdominal pain and diarrhoea; large doses cause GI corrosion, hepatic and renal damage, CNS effects [FAO/IPCS]. Inhalation of dust/mist: respiratory irritation, metal-fume fever (chills, fever, myalgia) [FAO/IPCS]. Eye: serious damage [ECHA]. [SDS/FAO-IPCS]

11.3 Other information

Our SDS v1.0 §11 gives classification but no numeric LD50/LC50. Numeric endpoints below are added from FAO/WHO INCHEM at the active-substance/copper-ion level; they are not GLP studies on our 96% TC batch and are not product guarantees.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Organism / endpoint	Result	Condition / source
Aquatic hazard classification	Aquatic Acute 1 (H400) and Aquatic Chronic 1 (H410); M=10 acute and chronic [ECHA/ECHA-RAC]	ECHA + ECHA-RAC
Fish acute LC50	Lowest geomean 11.7-14.9 ug dissolved Cu/L (P. promelas / D. rerio; pH 5.5-7.5, DOC dependent) [ECHA-RAC]	ECHA-RAC
Aquatic invertebrates acute EC50	11-16 ug dissolved Cu/L (Daphnia magna / Ceriodaphnia dubia, pH/DOC dependent) [ECHA-RAC]	ECHA-RAC
Algae acute ErC50	31.6-104.9 ug dissolved Cu/L (Pseudokirchneriella subcapitata, pH/DOC dependent) [ECHA-RAC]	ECHA-RAC
Bioaccumulation / degradation	Copper cannot be degraded; essential element under homeostasis; BCF not indicative of accumulation for metals [ECHA-RAC]	ECHA-RAC
German water hazard class (WGK)	Not located for copper dihydroxide specifically [OPEN]	OPEN

12.2 Persistence and degradability

Copper cannot be degraded; essential element under homeostasis; BCF not indicative of accumulation for metals [ECHA-RAC] [ECHA-RAC]

12.3 Bioaccumulative potential

Copper cannot be degraded; essential element under homeostasis; BCF not indicative of accumulation for metals [ECHA-RAC] [ECHA-RAC]

12.4 Mobility in soil

Copper is strongly bound to soil substances; free copper ion is controlled mainly by pH and dissolved organic carbon; copper is not expected to leach to the saturated zone. [FAO/IPCS active-substance level]

12.5 Results of PBT and vPvB assessment

PBT/vPvB: copper is an element and cannot be degraded; no conclusive PBT/vPvB assessment located for copper dihydroxide [ECHA-RAC/OPEN]. [ECHA-RAC/OPEN]

12.6 Endocrine disrupting properties

Endocrine-disrupting properties: no conclusion located in consulted public sources [OPEN]. [OPEN]

12.7 Other adverse effects

Our SDS v1.0 §12 classifies acute aquatic Cat 1 / H400 and chronic aquatic (historically Cat 2/H411; harmonised Cat 1/H410). ECHA CLH gives copper-ion aquatic endpoints; numeric values are expressed as dissolved copper and are strongly pH/DOC dependent. They describe the active substance / copper ion, NOT our 96% TC batch, and are contextual reference only. [SDS/ECHA/FAO-IPCS/OPEN]

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose as hazardous waste per local/national/international regulations; use a licensed hazardous-waste contractor. [SDS]

- Do not contaminate ponds, watercourses or ditches with the product or empty container. [SDS]
- Dispose of surplus product and non-recyclable packaging through a licensed hazardous-waste contractor. [SDS]
- Empty containers retain product residues; observe all label safeguards until cleaned and destroyed. [SDS]
- Triple-rinse emptied containers and add rinsings to the spray tank where applicable; puncture/crush and recycle where facilities exist. [SDS]

14 TRANSPORT INFORMATION

Parameter	ADR / RID	IMDG	IATA
UN number	OPEN - not assigned	UN 3077 [DG*]	OPEN - not assigned
Proper shipping name	OPEN	Environmentally hazardous substance, solid, n.o.s. [DG-CLASS*] - confirm	OPEN
Hazard class / Packing group	OPEN	Class 9 / PG III [DG*]	OPEN
Subsidiary risk / label	OPEN	None / Class 9 environmental (fish & tree) [DG-CLASS*]	OPEN
Environmental hazard	Aquatic hazard applies (H410) [ECHA]	Aquatic hazard applies (H410) [ECHA]	Aquatic hazard applies (H410) [ECHA]
Special precautions	Confirm against current editions and approved label [OPEN]	Confirm [OPEN]	Confirm [OPEN]

* DG-CLASS / DG-CERT: two historical, EXPIRED documents for 77% WP (a different formulation); evidence only, not a classification for 96% TC. Basis: UN Model Regs 18th rev. [DG-CLASS]; SN/T 0370.3-2012 + IMDG Code [DG-CERT]. Proper shipping name per [DG-CLASS]. See note below.
Historical DG evidence (both anonymised, EXPIRED, different formulation 77% WP): (1) DG classification report [DG-CLASS] No. DG1415053, dated 17 Dec 2014, valid to 16 Dec 2015, criteria UN Model Regulations 18th revised edition: main hazard environmentally hazardous, no subsidiary risk, UN 3077, Class 9, PG III, proper shipping name 'ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.', Class 9 environmental (fish/tree) label. (2) Exit packing-use certificate [DG-CERT] 317000000078970001 (performance 31600000007987001, issued 16 Mar 2017, valid to 16 Nov 2017): UN 3077, Class 9, PG III, solid, sea, SN/T 0370.3-2012 + IMDG Code; woven bags 50 x 90 cm, 25 kg net / 25.2 kg gross, 160 packages, filled 16 May 2017. Both documents are expired and cover a different formulation; they are cited solely as historical supporting evidence for the Class 9 / UN 3077 approach for solid copper hydroxide. They are not current reports/certificates and not a classification for 96% TC. No UN number is assigned to 96% TC by inference: regulatory sign-off against current ADR/IMDG/IATA editions, the approved label, a current classification report and a current packing certificate for the actual shipment are required. [DG-CLASS/DG-CERT/OPEN]

14.6 Special precautions for user

Do not transport together with foodstuffs, feed or drinking water. Ensure packages are upright, secure and clearly labelled. [SDS]

14.7 Transport in bulk (MARPOL Annex II / IBC Code)

Not applicable - the product is transported in packaged form only. [SDS]

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific to the substance

- Regulation (EC) No 1272/2008 (CLP); copper dihydroxide listed in Annex VI, Index 029-021-00-3; M=10 acute and chronic aquatic [ECHA].
- Regulation (EC) No 1907/2006 (REACH).
- Regulation (EC) No 1107/2009 where relevant to the authorised fungicide product [OPEN].
- Dangerous Goods regulations ADR/RID, IMDG and IATA; IMDG UN 3077 / Class 9 / PG III with proper shipping name 'ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.' is supported only by two expired historical documents for 77% WP [DG-CLASS/DG-CERT]; ADR/RID and IATA remain OPEN for 96% TC (Section 14) [DG-CLASS/DG-CERT/OPEN].
- Regulation (EU) 2019/1021 (POP) where relevant.
- National pesticide registration certificate and approved label for the destination market [OPEN].

15.2 Chemical safety assessment

A chemical safety assessment basis may exist in the registration dossier; verify against current dossier and destination-market requirements [ECHA/OPEN].

16 OTHER INFORMATION

16.1 Revision information

Version 1.0 (19 November 2026): first issue in the standard Bosman GHS/CLP 16-section format. Batch data come from the supplied 96% copper hydroxide COA (22 May 2022); missing fields are supplemented from ECHA CLP Annex VI, PubChem/HSDB/Merck/CRC and FAO/WHO INCHEM at active-substance level with source tags. GHS pictograms are the official UN GHS symbols (GHS05/GHS06/GHS09) selected per the CLP Annex VI classification [ECHA/UNECE-PUBCHEM]. The COA item misprint 'Cu(Cb)' is recorded as Cd after cross-check with our 96% TC reference COA.

16.2 Full text of hazard statements in Sections 2 and 3

Code	Full text
H330	Acute toxicity, inhalation, Category 2 - Fatal if inhaled. [ECHA]
H302	Acute toxicity, oral, Category 4 - Harmful if swallowed. [ECHA]
H318	Serious eye damage, Category 1 - Causes serious eye damage. [ECHA]
H400	Hazardous to the aquatic environment, acute, Category 1 - Very toxic to aquatic life. [ECHA]
H410	Hazardous to the aquatic environment, chronic, Category 1 - Very toxic to aquatic life with long lasting effects. [ECHA]

16.3 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. CLP: Classification, Labelling and Packaging (Regulation (EC) No 1272/2008). ECHA: European Chemicals Agency. EC50: half maximal effective concentration. GESTIS: information system of the German statutory accident insurance. GHS: Globally Harmonised System. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods Code. IPCS: International Programme on Chemical Safety. LC50/LD50: lethal concentration/dose, 50 %. OEL: occupational exposure limit. PBT: persistent, bioaccumulative and toxic. PNEC: predicted no-effect concentration. STOT: specific target organ toxicity. TLV-TWA: threshold limit value - time-weighted average. vPvB: very persistent and very

bioaccumulative.

16.4 Training advice

Users must be trained in safe handling, PPE use and the first-aid measures in Section 4. [SDS]

16.5 Disclaimer

The information in this safety data sheet is based on the present state of knowledge and current legislation at the date of revision. It describes the product with regard to safety requirements and does not constitute a guarantee of any specific property. COA values are batch measurements; public-authority values are active-substance-level reference only, not batch measurements or product guarantees. OPEN items require batch measurement, registration dossier or regulatory determination. Formal commercial issue requires QC and regulatory sign-off. This SDS is supplied for occupational health and safety purposes only. (c) Shanghai Bosman Industrial Co., Limited (上海晓博国际贸易有限公司). All rights reserved.