

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

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

1.1 Product Identifier:

Name: CopperGro

1.2 Relevant identified uses of the substance and uses advised against

1.2.1 Relevant identified uses: Plant nutrient

1.2.2 Uses advised against: No specific uses advised against.

1.3 Details of the supplier of the Safety Data Sheet

Supplier: Arise Bio Corp.

Address: #109 19347-24th Ave., Surrey, BC V3Z 3S9

Email address info@CopperGro.com

Telephone/fax number Tel. (604) 270-2639 (Canada)

Fax. (604) 270-2689 (Canada)

1.4 Emergency telephone number

Canada & USA 1-800-535-5053

International 1-352-323-3500

Availability: Office hours based in Canada

SECTION 2 Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 [CLP/GHS]

Acute Aquatic Category 2

Chronic Aquatic Category 1

2.2 Label Elements

2.2.1 According to Regulation (EC) 1272/2008 [CLP/GHS]



Hazard Pictograms:

Hazard Statements:

H401: Toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P264: Wash skin thoroughly after handling.

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

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents / container in accordance with local regulations.

2.3 Other Hazards

Criteria of PBT or vPvB: Not applicable to inorganic chemicals.

SECTION 3 Composition/information on ingredients

3.1 Substance

This SDS is for a mixture.

3.2 Mixture

Component	% (w/w)	Exposure Limits (OSHA/ACGIH)	Hazardous Classification
All ingredients are under GHS cut-off value	100	Not Applicable	Toxic to aquatic life Toxic to aquatic life with long lasting effects

SECTION 4 First Aid Measures

4.1 Description of First Aid Measures

General notes: Treat exposure symptomatically. Seek medical attention if symptoms develop or persist.

Following inhalation: Remove to fresh air from exposure. If breathing is difficult oxygen may be beneficial if administered by trained personnel. If symptoms develop, seek medical advice.

Following skin contact: Immediately remove contaminated clothing and wash skin with soap and plenty of water. If symptoms develop, consult a physician. Launder clothing before reuse.

Following ingestion: Get immediate medical attention. Do not induce vomiting. If conscious, rinse out mouth and give water to drink. Never give anything by mouth to an unconscious person.

Following eye contact: Rinse thoroughly with water for at least 15 minutes and seek medical attention.

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

Exposure should be treated symptomatically.

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

Not known. Exposure should be treated symptomatically.

SECTION 5 Fire fighting measures

5.1 Suitable extinguishing media:

Use extinguishing media appropriate to the situation of the fire and its surrounding area. Foam, dry powder, carbon dioxide and water mist are all suitable extinguishing media.

5.2 Special Hazards arising from the substance or mixture:

On burning, this material may generate toxic gases such as oxides of carbon, nitrogen oxides.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus and a chemical protective suit.
Do not allow extinguishing water to reach ground water or sewage system. Fight fire from a distance and stay upwind.

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Restrict access to the area as appropriate until clean up operations are complete. Use the personal protective equipment recommended in Section 8 (Exposure controls).

6.2 Environmental precautions:

Prevent material from entering drains or waterways. If drains, streams, soil or sewers become contaminated then notify local authority.

6.3 Methods and materials for containment and cleaning up:

Neutralize acidic material using caustic soda carefully. Cover spillage with damp inert material, take-up or collect and place into a suitable closable labelled container for disposal. Wash the area clean with water and detergent, observing environmental requirements.

6.4 Reference to other sections

Refer to sections 8 and 13 for guidance on personal protective equipment and disposal considerations.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling

7.1.1 Protective measures

Ensure that the area has adequate ventilation. Standard occupational safety procedures should be followed.

7.1.2 Advice on general occupational hygiene

Use of the personal protective equipment referred to in Section 8 is required. Do not breathe vapours/gases/dust. Do not get in eyes, on skin or on clothing. Wash hands, gargle and change clothes after use. Wash the contaminated clothing separately from others.

7.2 Conditions for safe storage including any incompatibilities:

Store in the closed original container in a dry, cool and well-ventilated place. Excessive heat and freezing temperatures should be avoided. Product storage must be in original HDPE shipping containers and should not be stacked higher than three container levels. 208 L drums should not be stacked.

Do not store for prolonged periods in direct sunlight.

7.3 Specific End use

Not applicable

SECTION 8 Exposure controls/ personal protection

8.1 Control Parameters

All the content are under the GHS cut-off value.

8.2 Exposure Controls

8.2.1 Engineering controls: No particular controls necessary.

8.2.2 Personal protection:

Eye/face protection: Using chemical splash-proof safety goggles is recommended

Skin protection: Using protective gloves and clothing are recommended.

Respiratory protection: Use an appropriate respirator which is approved and made according to a standard approved by the relevant national body for health and safety.

8.2.3 Environmental exposure controls.

Use the product in accordance with label instructions. Avoid unnecessary release to drains and waterways.

SECTION 9 Physical and Chemical Properties

Property	Endpoint
Appearance	Clear blue liquid
Odour	Not assessed
Odour threshold	Not assessed
pH	2.0 – 2.5
Melting point/Freezing point	Not assessed
Boiling point	Not assessed
Flash point	>60°C
Evaporation rate	Not assessed
Flammability	Not assessed
Upper lower flammability/explosive limits	Not assessed
Vapour pressure	Not assessed
Vapour density	Not assessed
Relative density	1.000 to 1.020 @ 20°C
Solubility in water	Readily soluble in water
Solubility in organic solvents	Not assessed
Partition coefficient (n-octanol/water)	Not assessed
Auto-ignition temperature	Not assessed
Decomposition temperature	Not assessed
Viscosity	1.0 cSt @ 20°C
Explosive properties	No explosive properties
Oxidising properties	No oxidizing properties

SECTION 10 Stability and Reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid excessive heat and maintain product above freezing temperature.

10.5 Incompatible materials

Avoid nylon fittings and cotton clothing.

10.6 Hazardous decomposition products

Thermal decomposition may release noxious, toxic gases or vapours. - sulphur oxides (SOx) and copper (oxide) fumes.

SECTION 11 Toxicological Information

11.1 Information on toxicological effects

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

SECTION 12 Ecotoxicological Information

12.1 Toxicity

Ecotoxicological Endpoint	Value	Test Method
Acute Toxicity	Aquatic Acute Cat. 2, H400, when calculated using the concentration and multiplying by the M factor.	Calculation method
Chronic Toxicity	Aquatic Chronic Cat. 1, H410, when calculated using the concentration and multiplying by a factor of 10.	Calculation method

12.2 Persistence and degradability

Trace amount of bound copper might aggregate in the background or sediment.

12.3 Bioaccumulative potential

Trace amount of bound copper will potentially bioaccumulate.

12.4 Mobility in soil

Material can potentially percolate into soil. Will dissolve in wet conditions leaving trace amount of bound copper ions in surrounding soil.

12.5 Results of PBT and vPvB assessment

Not applicable to inorganic chemicals.

12.6 Other adverse effects

No other adverse effects reported.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

13.1.1 Product/Packaging disposal

Triple or pressure-rinse the empty container. Add the rinsings to the treatment site. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with federal, provincial and/or local regulations including the Canadian Environmental Protection Act.

13.1.2 Waste treatment information

Containers should be triple washed or preferably jet washed prior to disposal. For residues, unused and unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

13.2 Additional information

Ensure compliance with EC, national and local regulations. Do not dispose of wastes in the local sewer or drainage system.

SECTION 14 Transport Information

Land Transport (ADR/RID)

UN number: 3082

UN proper shipping name: Liquid, Acidic, Inorganic, N.O.S. ENVIRONMENTALLY HAZARDOUS SUBSTANCE

Transport hazard class(es): 9

Packing group: III

Environmental hazard: Yes

Special precautions: Not applicable

Inland Waterways Transport

UN number: 3082

UN proper shipping name: Liquid, Acidic, Inorganic, N.O.S. ENVIRONMENTALLY HAZARDOUS SUBSTANCE

Transport hazard class(es): 9

Packing group: III

Environmental hazard: Yes

Special precautions: Not applicable

Air Transport (ICAO/IATA)

UN number: 3082

UN proper shipping name: Liquid, Acidic, Inorganic, N.O.S. ENVIRONMENTALLY HAZARDOUS SUBSTANCE

Transport hazard class(es): 9

Packing group: III

Environmental hazard: Yes

Special precautions: Not applicable

Marine Transport (IMDG/IMO)

UN number: 3082

UN proper shipping name: Liquid, Acidic, Inorganic, N.O.S. ENVIRONMENTALLY HAZARDOUS SUBSTANCE

Transport hazard class(es): 9

Packing group: III

Environmental hazard: Yes

Special precautions: MARINE POLLUTANT

SECTION 15 Regulatory Information

15.1 Safety health and environmental regulations specific for the substance

This safety data sheet has been compiled according to the requirements of Regulation (EC) No 1907/2006.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16 Other Information

16.1 Indication of changes

This is the revised version of the SDS written in accordance with Commission Regulation (EU) 2015/830

16.2 Abbreviations and acronyms

CAS: Chemical Abstracts Service

EC: Emulsifiable Concentrate

IUPAC: International Union of Pure and Applied Chemistry

PBT: Persistent Bioaccumulative Toxic

vPvB: Very persistent very bioaccumulative

NOEC: No observable effect concentration

NOAEL: No observed adverse effect level

16.3 Key literature references and sources for data

Not applicable.

16.4 Classification and procedure used to derive the classification according to Regulation (EC) 1272/2008 (CLP)

The classification has been derived from data on the formulation components.

16.5 Full text of relevant H statements

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

16.6 Training advice

This substance should be handled and used by professionals and those trained in its use.

16.7 Further information

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of CoTerra Labs' knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.