

SAFETY DATA SHEET

According to Regulation EC No. 1907/2006

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

1.1 Product Copper Sulphate

Identifier

Other Identifier

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

Product Use For use in a cattle footbath

1.3. Details of the supplier of the safety data sheet

Company Battle, Hayward & Bower Ltd.,
Crofton Drive,
Lincoln.
LN3 4NP

Telephone 01522 541241

Email address phillip@battles.co.uk

1.4. Emergency telephone number

Telephone 01522 541241

Section 2. Hazards identification

2.1

Classification under Regulation (EC) No. 1272/2008

Cat 4 Acute Toxicity

Cat 2 Skin Irrit

Cat 2 Eye Irrit

Cat 1 Acute Aquatic

Cat 1 Chronic Aquatic

2.2 Label elements

Classification under Regulation (EC) No. 1272/2008

Pictogram



Signal word

Warning

Hazards statements

Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

Very toxic to aquatic life with ong lasting effects

Precautionary statements

Avoid release to the environment

Wear protective gloves and eye protection

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

IF ON SKIN: Wash with plenty of soap and water

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.

Keep out of the reach of children.

Do not eat drink or smoke when using this product.

If skin irritation occurs: Get medical advice.
 If eye irritation persists: Get medical advice.
 Dispose of contents in accordance with regional regulations.

2.3 Other hazards

Section 3: Composition / Information on ingredients

3.1 Substances

3.2 Mixtures

Chemical name	Registration number(s)	Classification Regulation (EC) No. 1272/2008	Concentration
Copper Sulphate Pentahydrate	7758-99-8 029-004-00-0 231-847-6	Cat 4 Acute Toxicity Cat 2 Skin Irrit Cat 2 Eye Irrit Cat 1 Acute Aquatic Cat 1 Chronic Aquatic	90-100%

Section 4: First Aid Measures

4.1 Description of first aid measures

General advice	Remove all contaminated clothing immediately. Provide rest, warmth and fresh air. Seek medical advice.
If in eyes	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing
If inhaled	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
In case of skin contact	Remove contaminated clothing. Wash with soap and water.
If swallowed	Do NOT induce vomiting Never give anything by mouth to an unconscious person Obtain medical attention

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

Irritation to nose, throat and airways. Metallic taste.
 Nausea, vomiting, diarrhoea, headache, sweating, yellowing of skin,
 Over exposure, if severe enough, may be fatal.
 Skin irritation, mild dermatitis.
 Severe eye irritation. Burns can occur.

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

Unless extensive vomiting has occurred, empty stomach by gastric lavage. Probable mucosal damage may contraindicate use of gastric lavage.

Section 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media Water, foam, powder or carbon dioxide.

**Unsuitable
extinguishing
media**

5.2. Special hazards arising from the substance or mixture

When heated and in case of fire, toxic vapours/gases may be formed.

5.3. Advice for fire fighters

In the event of a fire, wear self-contained breathing apparatus
Keep run off water out of sewers and water sources.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment

Avoid breathing dust

Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent product from entering drains, watercourses.

6.3. Methods and material for containment and cleaning up

Contain spillage and dispose of in accordance with local regulations.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Keep container tightly closed

Wash hands after handling

Wear protective eye protection

Avoid breathing dust

Avoid skin and eye contact

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed

Store locked up

7.3. Specific end use(s)

Section 8: Exposure controls / personal protection

8.1. Control parameters

Components with workplace control parameters

Component	Cas – No.	Value	Control parameters	Basis
Copper Sulphate	7758-99-8	TWA STEL	0.041mg/kg/day oral 0.082mg/kg/day oral	UK EH40 WEL

8.2. Exposure controls

Keep container tightly closed

Wash hands thoroughly after handling

Wear protective eye protection.

Avoid breathing dust

Avoid skin and eye contact

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Blue crystalline powder
Odour	Odourless
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol / water	No data available
Auto ignition temperature	No data available
Decomposition temperature	110°C
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Violent reaction with hydrogen peroxide, bromates, chlorates

10.2. Chemical stability

Stable under normal temperature conditions and recommended use

10.3. Possibility of hazardous reactions

The material is acidic when dissolved in water and can react with magnesium to form hydrogen gas.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Avoid contact with strong acids, hydrogen peroxide or oxidising agents

10.6. Hazardous decomposition products

Sulphurous gases (SO_x), Cupric Oxide

Section 11: Toxicological information

Acute toxicity > 480mg/kg Rat oral

Section 12: Ecological information

12.1 Toxicity

Very toxic to aquatic organisms, may cause long term effects in the aquatic environment.

12.2 Persistence and degradability

The copper ions resulting from the degradation of this product cannot be degraded. Copper does not meet the criteria as 'persistent'

12.3. Bioaccumulative potential

The bioaccumulative criteria are not applicable to essential metals

12.4. Mobility in soil

Copper ions bind strongly to soil.

12.5. Results of PBT and vPvB assessment

Not classified under current EU criteria

12.6. Other adverse effects

Section 13: Disposal considerations

Dispose of waste and residues in accordance with local authority requirements

Section 14: Transport information

14.1. UN number	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS
14.3. Transport hazard class(es)	9
14.4. Packing group	III
14.5. Environmental hazards	Environmentally hazardous substance/Marine pollutant
14.6. Special precautions for user	EAC 2Z
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	

Section 15: Regulatory information

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

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

15.2. Chemical safety assessment

No data available

Section 16: Other information