

Revision Date 09-Aug-2022

Version 16

## Section 1: Identification

### Product identifier

**Product Name** MSA Extreme  
**Product Code** 20023221B

### Other means of identification

**Pure substance/mixture** Mixture

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming pool algaecide.  
**Uses advised against** No information available.

### Details of manufacturer or importer

#### Supplier

BIOLAB AUSTRALIA PTY LTD  
1 Susan Street  
Hindmarsh SA 5007  
AUSTRALIA  
PHONE: (AU) 1800 635 743

### For further information, please contact

**Contact Point** Customer Service: 0 800 441 662 (NZ)  
Customer Service: 1800 635 743 (AU)

**E-mail address** BiolabAU@biolabinc.com

### Emergency telephone number

**Emergency telephone number** In an Emergency: Dial 000 (AU)  
For SPECIALIST advice in an EMERGENCY ONLY phone CHEMCALL - FREE CALL ALL HOURS: AU 1800 127 406

## Section 2: Hazard(s) identification

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS)

### GHS Classification

<b>Skin corrosion/irritation</b>	Category 3
<b>Serious eye damage/eye irritation</b>	Category 1

### Label elements

**Signal word**

DANGER

**Hazard statements**

May be harmful if swallowed  
 Causes severe skin burns and eye damage  
 Very toxic to aquatic life with long lasting effects

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapours/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/clothing and eye/face protection  
 Avoid release to the environment

**Precautionary Statements - Response**

Immediately call a POISONS INFORMATION CENTRE or doctor  
 Specific treatment (see .? on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISONS INFORMATION CENTRE or doctor  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before re-use  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISONS INFORMATION CENTRE or doctor  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
 Collect spillage

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards which do not result in classification**

No information available.

**Section 3: Composition and information on ingredients**

Chemical name	CAS No	Weight-%
Copper(II) sulfate, pentahydrate (1:1:5)	7758-99-8	10 - 30

**Section 4: First aid measures****Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Rinse mouth.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to doctors** Treat symptomatically.

## **Section 5: Firefighting measures**

### **Suitable Extinguishing Media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### **Specific hazards arising from the chemical**

**Specific hazards arising from the chemical** No information available.

### **Special protective actions for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **Section 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### **Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

### **Precautions to prevent secondary hazards**

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **Section 7: Handling and storage**

### **Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

## Section 8: Exposure controls and personal protection

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	Australia	New Zealand	ACGIH TLV
Copper(II) sulfate, pentahydrate (1:1:5) 7758-99-8	-	TWA: 0.01 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> Cu dust and mist

Chemical name	European Union	United Kingdom	Germany MAK
Copper(II) sulfate, pentahydrate (1:1:5) 7758-99-8	-	-	TWA: 0.01 mg/m <sup>3</sup> Peak: 0.02 mg/m <sup>3</sup>

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** No information available.

**Thermal hazards** No information available.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** transparent  
**Colour** green blue  
**Odour** No information available.  
**Odour threshold** No information available

Property	Values	Remarks • Method
pH	2	
Melting point / freezing point	No data available	None known
Boiling point/boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate		None known
Flammability (solid, gas)		None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapour pressure	No data available	None known

Vapour density	No data available	None known
Relative density		None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Auto-ignition temperature	No data available	None known
Decomposition temperature	No information available	None known
Kinematic viscosity		None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidising properties	No information available	

**Other information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available
Particle characteristics	No information available

**Section 10: Stability and reactivity****Reactivity**

Reactivity No information available.

**Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid**

Conditions to avoid None known based on information supplied.

**Incompatible materials**

Incompatible materials None known based on information supplied.

**Hazardous decomposition products**

Hazardous Decomposition Products None known based on information supplied.

**Section 11: Toxicological information****Acute toxicity****Information on likely routes of exposure****Product Information**

Inhalation May be harmful by inhalation.

Eye contact Avoid contact with eyes. Corrosive to eyes.

<b>Skin contact</b>	Avoid contact with skin. Corrosive.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Symptoms</b>	No information available.

**Numerical measures of toxicity - Product Information**

No information available

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	2,127.00 mg/kg
<b>ATEmix (dermal)</b>	14,940.00 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Copper(II) sulfate, pentahydrate (1:1:5)	= 960 mg/kg ( Rat )	> 8 g/kg ( Rabbit )	-

See section 16 for terms and abbreviations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitisation</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Section 12: Ecological information****Ecotoxicity**

**Aquatic ecotoxicity** The environmental impact of this product has not been fully investigated.

**Unknown aquatic toxicity** 26.86 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Copper(II) sulfate,	-	LC50: 0.09 - 0.19mg/L	-	EC50: 0.147 - 0.227mg/L

pentahydrate (1:1:5)		(96h, Oncorhynchus mykiss) LC50: 0.1478 - 0.165mg/L (96h, Oncorhynchus mykiss) LC50: 0.66 - 1.15mg/L (96h, Lepomis macrochirus) LC50: 0.96 - 1.8mg/L (96h, Lepomis macrochirus) LC50: =0.6752mg/L (96h, Pimephales promelas)		(48h, Daphnia magna)
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**Terrestrial ecotoxicity** There is no data for this product.

**Persistence and degradability**

**Persistence and degradability** No information available.

**Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Mobility**

**Mobility** No information available.

**Other adverse effects**

**Other adverse effects** No information available.

## Section 13: Disposal considerations

**Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not re-use empty containers.

See section 8 for more information

## Section 14: Transport information

**Note:** Limited quantity (LQ) exception is possible

**ADG**

**UN Number** 3265  
**Proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (contains Copper Sulphate Pentahydrate)  
**Transport hazard class(es)** Class 8  
**Packing Group** III  
**Description** UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (contains COPPER SULPHATE PENTAHYDRATE), 8, III

**IATA**

**UN number or ID number** 3265  
**Proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (contains Copper Sulphate Pentahydrate)  
**Transport hazard class(es)** 8

**Packing group** III  
**Description** UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (contains COPPER SULPHATE PENTAHYDRATE), 8, III

**IMDG**

**Proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (contains Copper Sulphate Pentahydrate)  
**Transport hazard class(es)** 8  
**Packing Group** III  
**EmS-No** F-A, S-B  
**Description** UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (contains COPPER SULPHATE PENTAHYDRATE), 8, III

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

No information available

**Section 15: Regulatory information****Regulatory information****National regulations****Australia**

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). See section 8 for national exposure control parameters

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)**

Classified as a scheduled poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** 5

**Australian Industrial Chemicals Introduction Scheme (AICIS)**

Contact supplier for inventory compliance status

Chemical name	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Copper(II) sulfate, pentahydrate (1:1:5) - 7758-99-8	Present	-

**Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

Chemical name	National pollutant inventory
Copper(II) sulfate, pentahydrate (1:1:5) - 7758-99-8	10 tonne/yr Threshold category 1 2000 tonne/yr Threshold category 2b 60000 MWH Threshold category 2b 20 MW Threshold category 2b

**International Inventories**

**AICS** Contact supplier for inventory compliance status.  
**NZIoC** Contact supplier for inventory compliance status.  
**TSCA** Contact supplier for inventory compliance status.  
**DSL/NDL** Contact supplier for inventory compliance status.  
**EINECS/ELINCS** Contact supplier for inventory compliance status.  
**ENCS** Contact supplier for inventory compliance status.  
**IECSC** Contact supplier for inventory compliance status.  
**KECL** Contact supplier for inventory compliance status.



**PICCS** Contact supplier for inventory compliance status.

**Legend:**

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**Section 16: Other information**

**Revision Date** 09-Aug-2022

**Revision Note**

\*\*\*Indicates updated data since last publication.

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Program

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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**End of Safety Data Sheet**