

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : AgriTec™

1.2. Other means of identification

No additional information available.

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : For the control of most types of blue-green algae in irrigation canals, farm dams, industrial ponds, ornamental ponds, raceways, rice paddies and potable water supplies

1.4. Details of manufacturer or importer

Manufacturer

Earth Science Laboratories, International
45 Corduroy St
Longwarry Victoria 3816
Australia
T 1300 072 078
contact@earthsciencelabs.global
E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.5. Emergency phone number

Emergency number : +61 1300 366 961

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Corrosion Environment

Signal word (GHS AU) :

Warning

Contains :

copper sulphate pentahydrate ($\geq 15 - < 20 \%$); Sulfuric acid ($\geq 3 - < 5 \%$)

Hazard statements (GHS AU) :

H290 - May be corrosive to metals
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects
P234 - Keep only in original container
P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

Precautionary statements (GHS AU) :

protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P390 - Absorb spillage to prevent material damage.

P391 - Collect spillage.

P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification

No additional information available.

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
copper sulphate pentahydrate	7758-99-8	≥ 15 – < 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
Sulfuric acid	7664-93-9	≥ 3 – < 5	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Other substances (not contributing to the classification of this product)	-	75 – 82	-

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Sulfuric acid	CAS-No.: 7664-93-9	(5 ≤ C < 15) Eye Irrit. 2; H319 (5 ≤ C < 15) Skin Irrit. 2; H315 (15 ≤ C ≤ 100) Skin Corr. 1A; H314

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

4.2. Symptoms caused by exposure

Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Medical attention and special treatment

Treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures**5.1. Extinguishing media**

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Specific hazards arising from the chemical

- General measures : Contact with metals produces hydrogen gas which may form explosive mixtures with air.
Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Contain the extinguishing fluids by bunding. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code : 2X

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

- General measures : Contact with metals produces hydrogen gas which may form explosive mixtures with air.
Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and materials for containment and cleaning up

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material. Leftovers: neutralize with sodium bicarbonate.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep out of frost. Keep away from heat and direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in original container.

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Incompatible materials	: Metals.
Storage temperature	: > 0 °C
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.
Packaging materials	: Always store product in container of same material as original container.

SECTION 8: Exposure controls and personal protection**8.1. Control parameters - exposure standards**

Sulfuric acid (7664-93-9)	
Australia - Occupational Exposure Limits	
Local name	Sulphuric acid (Sulfuric acid)
OES TWA	1 mg/m³
OES STEL	3 mg/m³
Regulatory reference	Workplace exposure standards for airborne contaminants (2025)

8.2. Biological Monitoring

No additional information available.

8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment	: Wear recommended personal protective equipment.
Hand protection	: Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer.
Eye protection	: Protective goggles (EN 166)
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available.
Colour	: Clear Blue
Odour	: Barely perceptible
Odour threshold	: No data available.
pH	: 0.2 – 0.3
pH solution	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point / Freezing point	: No data available.
Boiling point	: 104 °C
Flash point	: No data available.
Auto-ignition temperature	: No data available.
Flammability	: No data available.
Vapour pressure	: Vapour pressure: 0.1 mm Hg
Relative density	: Relative vapour density at 20°C: 1.1
Density	: Relative density: 1.175 +/- 0.01
Solubility	: Water: completely miscible
Log Pow	: No data available.
Explosive properties	: No data available.
Explosive limits	: No data available.
Minimum ignition energy	: No data available.

Fat solubility : No data available.

SECTION 10: Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
Conditions to avoid : Incompatible substances or mixtures.
Incompatible materials : Strong bases. Strong reducing agents. metals.
Hazardous decomposition products : Sulphur oxides.

SECTION 11: Toxicological information

Acute toxicity (oral) : No data available. (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : No data available. (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : No data available. (Based on available data, the classification criteria are not met)

copper sulphate pentahydrate (7758-99-8)	
ATE AU (oral)	500 mg/kg bodyweight
Sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg bodyweight 95% CL: 1540 - 2990
LC50 Inhalation - Rat	0.375 mg/l air (OECD 403 method)
Skin corrosion/irritation	: Causes skin irritation. On basis of test data pH: 0.2 – 0.3
Serious eye damage/irritation	: Causes serious eye irritation. On basis of test data pH: 0.2 – 0.3
Respiratory or skin sensitisation	: No data available. (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: No data available. (Based on available data, the classification criteria are not met)
Carcinogenicity	: No data available. (Based on available data, the classification criteria are not met)
Reproductive toxicity	: No data available. (Based on available data, the classification criteria are not met)
STOT-single exposure	: No data available. (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: No data available. (Based on available data, the classification criteria are not met)
Aspiration hazard	: No data available. (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Sulfuric acid (7664-93-9)	
LC50 fish 1	16 – 28 mg/l <i>Lepomis macrochirus</i> (Bluegill)
EC50 Daphnia 1	> 100 mg/l <i>Daphnia magna</i> (Water flea)
NOEC (chronic)	0.15 mg/l Test organisms (species): other:
LD50 oral rat	2140 mg/kg bodyweight 95% CL: 1540 - 2990

12.2. Persistence and degradability

No additional information available.

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12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Ozone : No data available. (Based on available data, the classification criteria are not met)
Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Packaging that is not properly emptied must be disposed of as the unused product.

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

ADG	IMDG	IATA
14.1. UN number		
3264	3264	3264
14.2. UN Proper Shipping Name		
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (copper sulphate pentahydrate)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (copper sulphate pentahydrate)	Corrosive liquid, acidic, inorganic, n.o.s. (copper sulphate pentahydrate)
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
III - Substances presenting low danger	III	III
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes

14.6. Special precautions for user

Specific storage requirement : Recommended storage temperature
Shock sensitivity : No data available.

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

UN-No. (ADG) : 3264
Special provision (ADG) : 223, 274
Limited quantities (ADG) : 5l
Packing instructions (ADG) : P001, IBC03, LP01
Portable tank and bulk container instructions (ADG) : T7

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Portable tank and bulk container special provisions : TP1, TP28
(ADG)

Transport by sea

UN-No. (IMDG) : 3264
Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2
Segregation (IMDG) : SGG1, SG36, SG49

Air transport

UN-No. (IATA) : 3264
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L

14.8. Hazchem or Emergency Action Code

Hazchem Code : 2X

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations****Australian Industrial Chemicals Introduction Scheme (AICIS)**

Australian Inventory of Industrial Chemicals (AICIS) : All the chemicals contained in this product are listed introductions
Inventory) status

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

Not applicable.

Australian Pesticides and Veterinary Medicines Authority (APVMA)

Not applicable.

15.2. International agreements

No additional information available.

SECTION 16: Other information

Revision date : 12/03/2026
Other information : Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

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Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstracts Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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Abbreviations and acronyms:	
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
UFI	Unique Formula Identifier
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
ADG	Transport of Australian Dangerous Goods
DOT	Department of Transport
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
TDG	Transportation of Dangerous Goods
Classification	
Met. Corr. 1	H290
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Aquatic Acute 1	H400
Aquatic Chronic 2	H411
Full text of H-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation

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Full text of H-statements	
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.