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1 Identification

- · Product identifier
- · Trade name: Micro BCA Reagent 3
- · Article number: 760203
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cayman Chemical Co.
 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

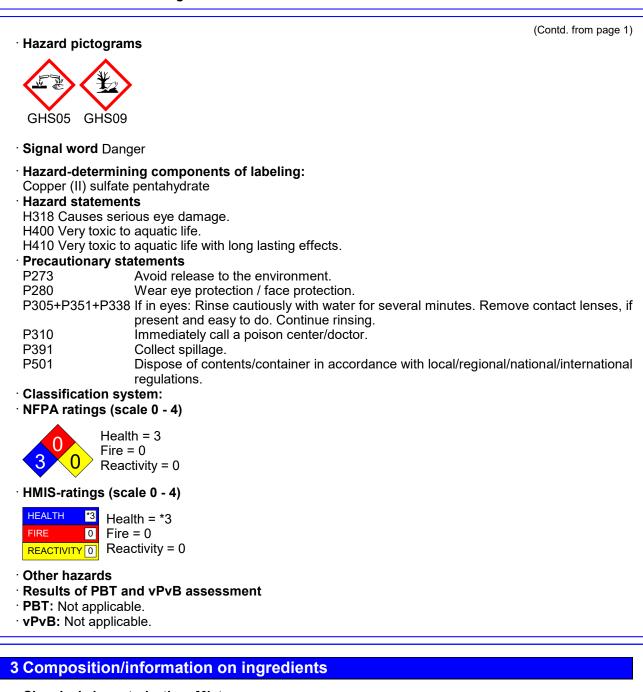
2 Hazard(s) identification

	of the substance or mixture 5 Corrosion
Eye Dam. 1	H318 Causes serious eye damage.
\checkmark	9 Environment
•	H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.
• Label elements • GHS label elem The product is o	-

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- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 7758-99-8 RTECS: GL8900000	Copper (II) sulfate pentahydrate	4.0%
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96.0%

· Other ingredients

CAS: 7732-18-5 Water RTECS: ZC0110000

4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
· Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Inform respective authorities in case of seepage into water course or sewage system.	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to item 13.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
· PAC-1:	
7758-99-8 Copper (II) sulfate pentahydrate 12 mg/r	n³
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32 mg/m³

190 mg/m³

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· PAC-2:

7758-99-8 Copper (II) sulfate pentahydrate

· PAC-3:

7758-99-8 Copper (II) sulfate pentahydrate

7 Handling and storage

· Handling:

Precautions for safe handling

No special precautions are necessary if used correctly.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

• Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· Material of gloves

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles

9 Physical and chemical properties

 Information on basic physical and c General Information 	chemical properties
 Appearance: Form: Color: Odor: Odor threshold: 	Liquid Colorless Odorless Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	0 °C (32 °F) 100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
[·] Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1 g/cm³ (8.345 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
 Viscosity: Dynamic at 20 °C (68 °F): 	0.952 mPas
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Kinematic:	Not determined.	
· Solvent content:		
Water:	96.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	4.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- ATE (Acute Toxicity Estimate)

Oral LD50 12,500 mg/kg

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

- Irritant
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · **Remark:** Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Environmentally hazardous substance, liquid, n.o.s.
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (Copper (II) sulfate pentahydrate
	MARINE POLLUTANT
IATA	Environmentally hazardous substance, liquid, n.o.s
	(Copper (II) sulfate pentahydrate)

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Transport hazard class(es)	
DOT	
	
Class Label	9 Miscellaneous dangerous substances and articles 9
IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles 9
Packing group	
DOT, IMDG, IATA	
Environmental hazards:	Symbol (fish and trac)
Marine pollutant: Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances an
	articles
Hazard identification number (Kemler code): EMS Number:	90 F-A,S-F
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 450 L
	On cargo aircraft only: 450 L
IMDG	51
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
• • • • • •	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IATA Remarks:	When sold in quantities of less than or equal to 1 ml
	or 1 g, with an Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10.
	Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
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UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER (II) SULFATE PENTAHYDRATE), 9, III

15 Regulatory information

· UN "Model Regulation":

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

7732-18-5 Water

ACTIVE

- Hazardous Air Pollutants None of the ingredients is listed.
- · Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

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Contact: - Date of preparation / last revision 10/25/2021 / - Abbreviations and acronyms: MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association INECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) IFPA: National Fire Protection Association (USA) MIS: Hazardous Materials Identification System (USA) OC: Volatile Organic Compounds (USA, EU) C50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent D50: Lethal dose, 50 percent D51: Persistent, Bioaccumulative and Toxic PYB: very Persistent and very Bioaccumulative IIOSH: National Institute for Occupational Safety DSHA: Occupational Safety & Health LV: Threshold Limit Value PEL: Permissible Exposure Limit EEL: Recommended Exposure Limit EEL: Recommended Exposure Limit Eye Dam. 1: Serious eye damage/eye irritation – Category 1		(Contd. from page 9)
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