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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

| Product No.: | Product name: | Common name(s), synonym(s) |
|--------------|-------------------------------------|-------------------------------|
| 213400 | Bottle Potato Dextrose Agar 500G | |

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

Identified uses: Laboratory Chemicals

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

BD Diagnostic Systems Europe
11, rue Aristide Bergès
Le Pont de Claix 38800
France

Telephone: 33 476 68 36 36

Contact Person: BD Diagnostic Systems Europe - Regulatory Compliance Department

E-mail: msds_europe@bd.com

1.4 Emergency telephone number: ChemTrec 1 800 424 9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements

Not applicable

2.3 Other hazards

No data available.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Chemical name | Concentration | CAS-No. | EC No. | REACH Registration No. | M-Factor: | Notes |
|-----------------|---------------|-----------|-----------|------------------------|--------------------|-------|
| copper sulphate | 0.001 - <0.1% | 7758-98-7 | 231-847-6 | No data available. | No data available. | |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

Classification

| Chemical name | CLP Classification | Notes |
|-----------------|--|--------------------|
| copper sulphate | Acute Tox.: 4: H302Eye Irrit.: 2: H319Skin Irrit.: 2: H315Aquatic Chronic: 1: H410Aquatic Acute: 1: H400 | No data available. |

Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Skin Contact: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Ingestion: Get medical attention if symptoms occur.

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4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

5.1 Extinguishing media Suitable extinguishing media: Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice for firefighters Special fire fighting procedures: No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: No special precautionary health measures should be needed under anticipated conditions of use.

6.2 Environmental Precautions: Avoid release to the environment.

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6.3 Methods and material for containment and cleaning up: No specific clean-up procedure noted.

6.4 Reference to other sections: No data available.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry place. Keep container tightly closed.

7.3 Specific end use(s): Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering Controls: No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Eye/face protection: Wear safety glasses with side shields (or goggles).

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Skin protection

Hand Protection: Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection: Respiratory protection not required.

Hygiene measures: Observe good industrial hygiene practices.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|---|------------------------------|
| Physical state: | solid |
| Form: | Solid or Flake |
| Color: | No data available. |
| Odor: | No data available. |
| Odor Threshold: | No data available. |
| pH: | 5.4 - 5.8 No data available. |
| Melting Point: | No data available. |
| Boiling Point: | No data available. |
| Flash Point: | Not applicable |
| Evaporation Rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Flammability Limit - Upper (%): | No data available. |
| Flammability Limit - Lower (%): | No data available. |
| Vapor pressure: | No data available. |
| Vapor density (air=1): | No data available. |
| Relative density: | No data available. |
| Solubility(ies) | |
| Solubility in Water: | Completely Soluble |
| Solubility (other): | Water.: No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Autoignition Temperature: | No data available. |
| Decomposition Temperature: | No data available. |
| SADT: | No data available. |

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Viscosity: Not determined.
Explosive properties: No data available.
Oxidizing properties: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Material is stable under normal conditions.
10.2 Chemical Stability: Material is stable under normal conditions.
10.3 Possibility of hazardous reactions: Not known.
10.4 Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.
10.5 Incompatible Materials: Strong oxidizers.
10.6 Hazardous Decomposition Products: Not known.

SECTION 11: Toxicological information

General information: No data on possible toxicity effects have been found.

Information on likely routes of exposure

Inhalation: Limited inhalation hazard at normal work temperatures.
Ingestion: No harmful effects expected in amounts likely to be ingested by accident.
Skin Contact: Negligible irritation to skin at ambient temperatures.
Eye contact: Do not get in eyes.

11.1 Information on toxicological effects

Acute toxicity

Oral Product: Not classified for acute toxicity based on available data.

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Specified substance(s)

copper sulphate LD 50 (Rat): 482 mg/kg Experimental result, Key study
LD 50 (Rat): 481 mg/kg Experimental result, Key study

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

copper sulphate LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

copper sulphate No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

copper sulphate NOAEL (Rat(Female, Male), Oral, 92 d): 1,000 ppm(m)
LOAEL (Rat(Female, Male), Oral, 92 d): 2,000 ppm(m)
LOAEL (Rat(Female, Male), Inhalation): 0.2 mg/m³
LOAEL (Mouse(Female, Male), Oral, 92 d): 2,000 ppm(m)
NOAEL (Mouse(Female, Male), Oral, 92 d): 1,000 ppm(m)

Skin

Corrosion/Irritation:

Product: No data available.

Specified substance(s)

copper sulphate in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

copper sulphate No data available.

Respiratory or Skin Sensitization:

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Product: No data available.

Specified substance(s)
copper sulphate No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)
copper sulphate No data available.

In vivo

Product: No data available.

Specified substance(s)
copper sulphate No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)
copper sulphate No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)
copper sulphate No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)
copper sulphate No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

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copper sulphate No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

copper sulphate No data available.

Other adverse effects: None known.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

copper sulphate LC 50 (Rainbow trout, 24 h): 150 µg/l
LC 50 (Goldfish, 96 h): 1,380 µg/l
LC 50 (Goldfish, 24 h): 4,490 µg/l
LC 50 (Green sunfish, 96 h): 3,510 µg/l
LC 50 (Green sunfish, 24 h): 4,290 µg/l

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

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copper sulphate LC 50 (Daphnia magna, 48 h): 40 µg/l (Static) Read-across based on grouping of substances (category approach), Weight of Evidence study
LC 50 (Daphnia magna, 48 h): 70 µg/l (Static) Read-across based on grouping of substances (category approach), Weight of Evidence study
EC 50 (Daphnia magna, 48 h): 281 µg/l (Static) Experimental result, Weight of Evidence study
LC 50 (Ceriodaphnia dubia, 48 h): 46.9 µg/l (Static renewal) Read-across based on grouping of substances (category approach), Weight of Evidence study
LC 50 (Ceriodaphnia dubia, 48 h): 14 µg/l (semi-static) Experimental result, Weight of Evidence study

Chronic Toxicity

Fish

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

copper sulphate NOAEL (Pimephales promelas, 32 d): 4.8 µg/l (flow-through) Experimental result, Weight of Evidence study
NOAEL (Pimephales promelas, 330 d): 33 µg/l (flow-through) Experimental result, Weight of Evidence study
NOAEL (Atherinops affinis, 12 d): 63 µg/l (Static) Experimental result, Weight of Evidence study
NOAEL (Perca fluviatilis, 30 d): 188 µg/l (flow-through) Experimental result, Weight of Evidence study
NOAEL (Pimephales promelas, 330 d): 14.5 µg/l (flow-through) Experimental result, Weight of Evidence study

Aquatic Invertebrates

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

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copper sulphate NOAEL (Mytilus edulis, 48 h): 6.2 µg/l (flow-through) Experimental result, Weight of Evidence study
NOAEL (Daphnia magna, 21 d): 28 µg/l (semi-static) Experimental result, Weight of Evidence study
EC 50 (Various, 48 h): 14.4 µg/l (Static) Experimental result, Weight of Evidence study
NOAEL (Ceriodaphnia sp., 7 d): 10 µg/l (semi-static) Experimental result, Weight of Evidence study
LC 50 (E. affinis, 96 h): 71 µg/l (Static) Experimental result, Weight of Evidence study

Toxicity to Aquatic Plants

Product: No negative effects on the aquatic environment are known.

Specified substance(s)

copper sulphate No data available.

12.2 Persistence and Degradability

Biodegradation

Product: Expected to be readily biodegradable.

Specified substance(s)

copper sulphate No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

copper sulphate No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

copper sulphate Eisenia andrei, Bioconcentration Factor (BCF): 0.3 - 1
Terrestrial Experimental result, Weight of Evidence study

12.4 Mobility in soil:

Product: No data available.

Specified substance(s)

copper sulphate No data available.

12.5 Results of PBT and vPvB assessment:

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Product: No data available.
Specified substance(s)
copper sulphate No data available.

12.6 Other adverse effects: The product is not expected to be hazardous to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal methods: No specific disposal method required.

SECTION 14: Transport information

ADR

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
Hazard No. (ADR): Not regulated.
Tunnel restriction code: Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards:
Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

ADN

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
Hazard No. (ADR): Not regulated.
Tunnel restriction code: Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.

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Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

RID

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards:
Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

IMDG

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
EmS No.: Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards:
Marine Pollutant: Not regulated.
14.6 Special precautions for user: Not regulated.

IATA

14.1 UN Number: Not regulated.
14.2 Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es):
Class: Not regulated.
Label(s): Not regulated.
14.4 Packing Group: Not regulated.

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14.5 Environmental Hazards: Not regulated.
Marine Pollutant: Not regulated.

14.6 Special precautions for user: Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

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Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: No data available.

References

PBT PBT: persistent, bioaccumulative and toxic substance.
vPvB vPvB: very persistent and very bioaccumulative substance.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

| | |
|------|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Training information: No data available.

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