

AlgaEnviro Pty Ltd

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SAFETY DATA SHEET

Version 3.0 Revision Date 04/01/2021

Replaces Version 2.0

1. Identification: Product identifier and chemical identity

Product identifier

Product name: Diatomix

Product Code: Dmtx-A

Brand: AlgaEnviro

Other means of identification

Silica and metal ions preparation

Recommended use of the chemical and restrictions on use

Identified uses: Growth of diatom algae in water and soils, foliar fertiliser

Details of the supplier of the safety data sheet

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2. Hazard(s) identification

GHS Classification

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Pictogram: none.

Signal word: none.

Hazard statement(s): Observe the general safety regulations when handling chemicals.

Precautionary statement(s): none.

Information concerning particular hazards for human and environment:

Safety phrases:

3/9/49 Keep only in the original container in a cool, well-ventilated place.

7 Keep container tightly closed.

13 Keep away from food, drink and animal feeding stuffs

18 Handle and open container with care.

20 When using do not eat or drink

23 Do not breathe gas/fumes/vapor/spray.

24/25 Avoid contact with skin and eyes.

35 This material and its container must be disposed of in a safe way.

37 Wear suitable gloves.

Not a hazardous substance or mixture.

Other hazards -none

3. Composition and information on ingredients, in accordance with Schedule 8

Mixtures

Contains non-toxic, ionic concentrations of the following elements:

Fe, Mn, Zn, Co, Cu, K, B, Mo, Ca, Mg, Na, Si, Cl (Iron, Manganese, Zinc, Cobalt, Copper, Potassium, Boron, Molybdenum, Calcium, Magnesium, Sodium, Silicon, Chlorine)

Synonyms: Silica preparation with metal ions

Additional information:

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication 'List of Designated Hazardous Substances' or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication 'Approved Criteria for Classifying Hazardous Substances'.

4. First-aid measures

Description of first aid measures

General advice

If contact occurs then wash off with soap and water. If feeling unwell, consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. If feeling unwell, consult a physician.

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing media - Suitable extinguishing media

CO₂, powder or water spray. Fight larger fires with water spray.

Special hazards arising from the substance or mixture

Silicon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions Prevent further leakage or spillage if possible. Large volume discharge into the environment should be avoided. Where this does occur on land, collect any gelled material remaining on ground surface and dispose of safely, as per section 13. Rinse the area with water to dilute remaining product.

Where this does occur in water, mix the released product into the surrounding waters, where practical. The product has no / low toxicity under known conditions. Mixing or dilution is recommended to reduce possibility of localized harm to the environment. Will not harm the environment when mixed / diluted.

Methods and materials for containment and cleaning up Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. Handling and storage, including how the chemical may be safely used

Precautions for safe handling

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.3 no other specific.

8. Exposure controls and personal protection

General protective and hygienic measures: Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if area is well-ventilated.

Protection of hands: Protective gloves. Material of gloves: Nitrile Rubber or PVC gloves.

Eye protection: Safety glasses with side shield protection. A face shield should also be worn if there is potential exposure to splash or spray.



Body protection: Protective work clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

- a) Appearance Form: brown liquid that settles into a slurry. (Mix well before use)
- b) Odour: No distinct or obnoxious odour
- c) Odour Threshold: No odour
- d) pH: ~8.3
- e) Melting point/freezing: 0 degrees Celsius
- f) Initial boiling point: 100 degrees Celsius
- g) Flash point: Non-flammable
- h) Evaporation rate: Similar to water
- i) Flammability: Non-flammable
- j) Explosive limits: Non explosive
- k) Vapour pressure: No data available
- l) Vapour density: No data available
- m) Relative density: 1.06 g/mL at 25 °C
- n) Water solubility: 100% soluble
- o) Partition coefficient: No data available
- p) Auto-ignition: Non-flammable
- q) Decomposition: Does not decompose when stored correctly.
- r) Viscosity: No data available
- s) Explosive properties: Non-explosive
- t) Oxidizing properties: No data available

Other safety information

No data available

10. Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Strong bases, Strong oxidizing agents, Amines, Strong acids, Acid anhydrides, Peroxides, Isocyanates, Phenol, Aniline

Hazardous decomposition products

Other decomposition products -No data available. In the event of fire: see section 5

11. Toxicological information

Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 3 -Group 3: Not classifiable as to its carcinogenicity to humans (Silicon dioxide)

Reproductive toxicity

No data available

Specific target organ toxicity -single exposure

No data available

Specific target organ toxicity -repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

Toxicity

Product is not toxic up to 10,000 mg/L, standard dose is normally 1 mg/L.

Persistence and degradability

Will persist for weeks, but is bioavailable to diatom algae and will be utilized under natural conditions.

Bio-accumulative potential

All components occur naturally in the environment and do not bio-accumulate.

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Not harmful to aquatic life, no long-lasting effects.

13. Disposal considerations

Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport information

UN-Number ADG, ADN, IMDG, IATA

Not Regulated

UN proper shipping name ADG, ADN, IMDG, IATA

Not Regulated

Transport hazard class(es) ADG, ADN, IMDG, IATA Class

Not Regulated

Packing group ADG, IMDG, IATA

Not Regulated

Environmental hazards: Marine pollutant:

No.

Special precautions for user:

Not Regulated

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

Not Regulated Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture**Standard for the Uniform Scheduling of Medicines and Poisons**

No data available

Carcinogen classification under WHS Regulation 2011, Schedule 10

Not listed

Notification status

16. Any other relevant information

Further information

None.

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