



# SAFETY DATA SHEET (SDS)

(In accordance with GHS ST/SG/AC.10/30/Rev.7 and SANS ISO 110141)

## BIOMAX

|               |         |
|---------------|---------|
| Issue Date    | 09/2019 |
| Revision Date | 2024    |
| SDS Nr.       | MM/M400 |

### Section – 1 PRODUCT AND COMPANY IDENTIFICATION

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| Product name               | : BioMax                                                                     |
| Product Code               | : M468                                                                       |
| Recommended use            | : Liquid preparation containing seaweed extracts                             |
| Supplier                   | : Metson Biologicals<br>P.O. Box 1005, Cresta, 2118<br>Gauteng, South Africa |
| Emergency Telephone Number | : 0861 Metson (638 766)                                                      |

### Section 2 - HAZARDS IDENTIFICATION

| Hazard Class              | Hazard Category | Hazard Statement                        | Hazard Code | Signal Word |
|---------------------------|-----------------|-----------------------------------------|-------------|-------------|
| Acute toxicity, oral      | 4               | Harmful if swallowed                    | H302        | Warning     |
| Skin corrosion/irritation | 1A, 1B, 1C      | Causes severe skin burns and eye damage | H314        | Danger      |

### Section 3 – COMPOSITION / INFORMATION ON COMPONENTS

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| Substance / preparation | : Liquid preparation containing seaweed and foliar extracts |
| Chemical nature         | : Liquid                                                    |
| Hazardous components: - |                                                             |

| Chemical name          | CAS no    | Concentration |
|------------------------|-----------|---------------|
| <i>Ecklonia maxima</i> | n/a       | 0-1 %         |
| Potassium Hydroxide    | 1310-58-3 | 2-5 %         |
| Water                  | 7732-18-5 | 90-95 %       |
| Phosphoric acid        | 7664-38-2 | 1-3 %         |
| Stabiliser             | n/a       | 0-1 %         |



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### Section 4 - FIRST AID MEASURES

- Eye Contact** : Wash with copious amount of water for about 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat rinse. Seek medical attention immediately.
- Skin Contact** : Remove all contaminated clothing while flushing the contaminated skin immediately with running water for a minimum of 15 minutes. If irritation persists, repeat rinse. Seek medical advice if required.
- Ingestion** : Seek immediate medical attention. Give ½ to one full glass of water to rinse the mouth with. Do not induce vomiting, unless under direction of a physician or a poison control Centre expert. If spontaneous vomiting occurs, have the victim lean forward with the head down to avoid breathing in of vomit, rinse mouth and administer water. Transport the victim immediately to an emergency facility.
- Note to Physician** : None

### Section 5 - FIRE FIGHTING MEASURES

- Suitable extinguishing media** : For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires use foam or water-fog; avoid using water jet. Contain run-off with barriers, e.g. earth
- Special protective equipment** : Wear full protective clothing and NIOSH-approved self-contained breathing apparatus. Fire might produce irritating or poisonous vapours, mists or other combustion products.
- Specific hazards** : Flammable. Keep fire exposed containers cool by spraying with water. Container could explode when heated.

### Section 6 - ACCIDENTAL RELEASE MEASURES

- Personal Precautions** : Wear appropriate PPE. Ventilate area of spill or leak.
- Environmental precautions** : Avoid run-off of material into water courses.
- Methods for cleaning up** : Small quantities – Collect spill and containerize.  
Wash spill area with water.  
Large quantities – Dispose waste according to the local regulations.

### Section 7 - HANDLING AND STORAGE

- Safe handling advice** : Prevent skin or eye contact. Avoid getting the product on you or in you. Wash hands after handling. Do not eat or drink while handling the product.
- Storage conditions** : Do not store with food, feed or other materials for human or animal consumption. Keep container tightly closed. Store at warehouse conditions.



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### **Section 8 – EXPOSURE CONTROL / PERSONAL PROTECTION**

**Exposure limits** : None

**Personal protection equipment**

**Eye protection** : Eye contact with the material should be avoided. Safety glasses, goggles or face shields required.  
Maintain eye wash fountain and quick drench facilities in work areas.

**Skin and body protection** : Gloves and protective clothing made from Viton or PVC should be used. Verify impermeability under normal usage conditions.

**Inhalation** : Respirator Mask or NIOSH approved air purifying mask – required under normal conditions

**Protective measures** : Required under normal conditions. If eye or skin contact can occur washing facility for eyes and skin must be available nearby.

### **Section 9 – PHYSICAL AND CHEMICAL PROPERTIES**

|                              |                               |
|------------------------------|-------------------------------|
| <b>Physical state</b>        | : Liquid                      |
| <b>Colour</b>                | : Dark brown                  |
| <b>Odour</b>                 | : Seaweed, organic odor       |
| <b>Melting temperature</b>   | : n/a                         |
| <b>Initial boiling point</b> | : 100°                        |
| <b>pH</b>                    | : 10.0-11.0 (as 10% solution) |
| <b>Specific gravity</b>      | : 1.03                        |
| <b>Water solubility</b>      | : Water soluble               |

### **Section 10 – STABILITY AND REACTIVITY**

**Thermal decomposition** : Not measured.

**Hazardous decomposition products** : None with proper storage and handling.

**Hazardous reactions** : Avoid contact with strong alkaline materials



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### Section 11 - TOXICOLOGICAL INFORMATION

#### **LD50 Acute oral**

#### **Eye irritant**

|                   |                                         |
|-------------------|-----------------------------------------|
| Arsenic pentoxide | : Refer to risk statement in section 15 |
| Chromium trioxide | : Refer to risk statement in section 15 |
| Cupric oxide      | : Refer to risk statement in section 15 |

#### **Skin irritant**

|                   |                                         |
|-------------------|-----------------------------------------|
| Arsenic pentoxide | : Refer to risk statement in section 15 |
| Chromium trioxide | : Refer to risk statement in section 15 |
| Cupric oxide      | : Refer to risk statement in section 15 |

#### **Carcinogen**

|                   |                                         |
|-------------------|-----------------------------------------|
| Arsenic pentoxide | : Refer to risk statement in section 15 |
| Chromium trioxide | : Refer to risk statement in section 15 |
| Cupric oxide      | : Refer to risk statement in section 15 |

#### **Acute exposure symptoms**

|                   |                                         |
|-------------------|-----------------------------------------|
| Arsenic pentoxide | : Refer to risk statement in section 15 |
| Chromium trioxide | : Refer to risk statement in section 15 |
| Cupric oxide      | : Refer to risk statement in section 15 |

### Section 12 - ECOLOGICAL INFORMATION

#### **Persistence / degradability**

|                   |                                         |
|-------------------|-----------------------------------------|
| Arsenic pentoxide | : Refer to risk statement in section 15 |
| Chromium trioxide | : Refer to risk statement in section 15 |
| Cupric oxide      | : Refer to risk statement in section 15 |

#### **Ecotoxicity**

|                   |                                         |
|-------------------|-----------------------------------------|
| Arsenic pentoxide | : Refer to risk statement in section 15 |
| Chromium trioxide | : Refer to risk statement in section 15 |
| Cupric oxide      | : Refer to risk statement in section 15 |

### Section 13 – DISPOSAL CONSIDERATIONS

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| <b>Product</b>                | : Dispose according to the local regulations. |
| <b>Containers</b>             | : Dispose according to the local regulations. |
| <b>Contaminated packaging</b> | : Dispose according to the local regulations. |

### Section 14 – TRANSPORT INFORMATION

Non - Dangerous



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### Section 15 – REGULATORY INFORMATION

#### National legislation (South Africa)

- Hazardous substances** : Occupational Health and Safety Act, Act 85 of 1995 – Regulations for hazardous chemical substances.
- Transport** : National Road Traffic Act, Act 93 of 1996 – Chapter VII of the regulations.
- Waste disposal** : National Water Act, Act 36 of 1998

#### Other regulations

- Hazard Symbols** : None
- Risk phrases** : H302 – Harmful if swallowed  
H314 – Causes severe skin burns and eye damage
- Safety phrases** : None

### Section 16 – OTHER INFORMATION

**16.1** This Safety Data Sheet has been prepared using data supplied by the manufacturers of the ingredients and summarizes our best knowledge, at the date of issue, and of the health and safety information of the product and how to safely handle and use the product in the workplace. Since Metson Manufacturing cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this Safety Data Sheet in the context of how their user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that and appropriate risk assessment can be made, the user should contact Metson Manufacturing.

- 16.2** **Original** : September 2019  
**Last Revised** : February 2025

**019**  
**09/2019**  
**Future Revision 2025**

#### End of SDS

- FKM : Fluoroelastomer  
PVC : Polyvinyl chloride  
NIOSH : National Institute for Occupational Health and Safety

#### Label elements

| GHS (Pictogram)                                                                     | GHS (Classification)                                                          | Protective Clothing                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | H302 – Harmful if swallowed<br>H314 – Causes severe skin burns and eye damage |  |