SAFETY DATA SHEET
ACCORDING TO 1907/2006/EC, 453/2010/EU, 2015/830/EU (REACH)

ACTICELL MoB

1.1 Product Identifier
Product Name: ACTICELL MoB
Product description: Fertiliser
Product Type: Suspension

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant uses: Fertiliser
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet
Rolfes Agri (Pty) Ltd
288 Mundt Street
Waltloo
Pretoria
South Africa
Tel: +27(0)12 803 0145
Fax: +27(0)12 803 8418

1.4 Emergency telephone number
National advisory body/Poison Centre
Telephone number: SOUTH AFRICA
Griffon Poison Information Centre
(24 Hour Poisoning Emergency Helpline)
+27(0)82 446 8946
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:
CLP Regulation (EC) no 1272/2008:
Not classified as dangerous

2.2 Label elements
CLP Regulation (EC) no 1272/2008:

- Hazard pictogram(s): None
- Signal word: None
- Hazard statement(s): Not Hazardous
- Precautionary statement(s):
  These precautionary statements are not prescribed by directive 1272/2008, as this product is not classified as hazardous under this directive.

  P101 - If medical advice is needed, have product container or label at hand.
  P102 - Keep out of reach of children.
  P103 - Read label before use.
  P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.

2.3 Other hazards
Non-applicable

SECTION 3: Composition/information on ingredients

3.1 Substance:
Non-applicable

3.2 Mixture:
- Chemical description: Multi- Constituent Substance
- Components: None of the components are classified as hazardous

SECTION 4: First Aid Measures

4.1 Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:
In case of symptoms of intoxication, remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:
In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters) seek medical advice with this Safety Data Sheet.

By eye contact:
Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes. Get medical attention.

By ingestion / aspiration:
Try to induce vomiting. Newer make an unconscious person vomit or drink fluids. Get medical attention.
4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Fire Extinguishing Media

Suitable extinguishing media:
Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media:
None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture:
Product is not combustible.
Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products:
If heated, harmful vapours may be formed.

5.3 Additional provisions:
Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Isolate leaks provided that there is no additional risk for the people performing the task. Personal protection equipment must be used against potential contact with the spilt product (see section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:
Do not discharge into drains, water courses or onto the ground. Remove any intact containers. Advise local authority that none of the affected water should be used until natural dilution returns the levels to its normal environmental background level.

6.3 Methods and materials for containment and cleaning up
Absorb the spillage using sand or inert absorbent and move it to a safe place. For any concern related to disposal consult section 13.

6.4 Reference to other sections:
See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.
SECTION 7: Handling and storage

7.1 Precautions for safe handling:
A. - Precautions for safe manipulation
   Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B. - Technical recommendations for the prevention of fires and explosions
   Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C. - Technical recommendations to prevent ergonomic and toxicological risks
   Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D. - Technical recommendations to prevent environmental risks
   It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:
A. - Technical measures for storage
   Minimum Temp.: 5 ºC
   Maximum Temp.: 30 ºC
   Maximum time: 36 Months

B. - General conditions for storage
   Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s)
   Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
   Substances whose occupational exposure limits have to be monitored in the work environment. Occupational Exposure Limit TWA 8 h – 10 mg/m³

   DNEL (Workers): No data available

   DNEL (Consumer / General Population): No data available

   PNEC: No data available

8.2 Exposure controls
   Appropriate engineering controls:
   No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

   Individual protection measures

   Hygiene measures:
   Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Eye/face protection:
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Possible: safety glasses with side-shields

Skin protection

Hand protection:
Protective gloves against minor risks.

Body protection:
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls:
In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
For complete information, please refer to product datasheet.

Appearance
Physical state : Suspension
Colour : Yellow
Odour : Slight marine odour
Odour threshold : Not available
SG : 1.25

Volutility:
Boiling point at atmospheric pressure : Non-applicable *
Vapour pressure at 20 °C : Non-applicable *
Vapour pressure at 50 °C : Non-applicable *
Evaporation rate at 20 °C : Non-applicable *

Product description:
Density at 20 °C : Non-applicable *
Relative density at 20 °C : Non-applicable *
Dynamic viscosity at 20 °C : Non-applicable *
Kinematic viscosity at 20 °C : Non-applicable *
Kinematic viscosity at 40 °C : Non-applicable *
Vapour density at 20 °C : Non-applicable *
Partition coefficient n-octanol/water 20 °C : Non-applicable *
Solubility in water at 20 °C : Non-applicable *
Solubility properties : Non-applicable *
Decomposition temperature : Non-applicable *
Melting point : Non-applicable *
Freezing point : -4 °C
Explosive properties: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Oxidising properties: Non-applicable *

Flammability:
- Flash Point: Non-applicable *
- Auto ignition temperature: Non-applicable *
- Lower flammability limit: Non-applicable *
- Upper flammability limit: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity:
No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:
Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:
Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:
Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants. Sodium Molybdate will explode on contact with molten magnesium. Its reaction with hot potassium, sodium, or lithium is incandescent. It is incompatible with oxidizing agents and alkali metals. Sodium Molybdate with will violently react with interhalogens (e.g., bromine pentafluoride; chlorine trifluoride).

10.5 Incompatible materials:
None identified

10.6 Hazardous decomposition products:
Thermal decomposition may include toxic sodium oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects
The experimental information related to the toxicological properties of the product itself is not available

11.2 Dangerous health implications:
In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A. Ingestion (acute effect):
- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosively/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
B. Inhalation (acute effect):
- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosively/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C. Contact with the skin and the eyes (acute effect):
- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

D. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E. Sensitizing effects:
- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F. Specific target organ toxicity (STOT)-time exposure:
Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G. Specific target organ toxicity (STOT)-repeated exposure:
- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H. Aspiration hazard:
Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information: Non-applicable

**SECTION 12: Ecological information**

The experimental information related to the eco-toxicological properties of the product itself is not available.

12.1 **Toxicity:** No data available.
12.2 **Persistence and degradability:** No data available.
12.3 **Bio accumulative potential:** No data available.
12.4 **Mobility in soil:** No data available.
12.5 **Results of PBT and vPvB assessment:** No data available
12.6 **Other adverse effects:** No data available
SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

**Product**

**Methods of disposal:**
The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Hazardous waste:** Non-hazardous waste.

**Packaging**

**Methods of disposal:**
The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions:**
This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>Land transport (ADR/RID)</th>
<th>Inland waterway transport (AND/ADNR)</th>
<th>Sea Transport (IMDG)</th>
<th>Air transport (ICAO-TI/IATA-DGR)</th>
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| 14.2 UN proper shipping name | - | - | - | - |

| 14.3 Transport hazard class(es) | - | - | - | - |

| 14.4 Packing group | - | - | - | - |

| 14.5 Environmental hazards | No. | No. | No. | No. |

| 14.6 Special precautions for user | Not available. | Not available. | Not available. | Not available. |

| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable
Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable
Article 95, REGULATION (EU) No 528/2012: Non-applicable
Regulation (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc. .....): Non-applicable

Specific provisions in terms of protecting people or the environment:
It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:
The product could be affected by sectorial legislation

15.2 Chemical Safety Assessment:
Not available.

SECTION 16: Other information

Legislation related to safety data sheets:
This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) Nº 1907/2006 (Regulation (EU) Nº 453/2010, Regulation (EC) Nº 2015/830)

Texts of the legislative phrases mentioned in section 2:
The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Texts of the legislative phrases mentioned in section 3:
Not applicable.

CLP Regulation (EC) nº 1272/2008 (refer to section 3):
Not classified

Principal bibliographical sources:
http://echa.europa.eu
www.dguv.de/ifa/gestis-dnel
http://eur-lex.europa.eu

Advice related to training:
Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Relevant P-, H- and EUH-phrases (number and full text)
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.
P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

**Abbreviations and acronyms:**
ADR - European agreement concerning the international carriage of dangerous goods by road
IMDG - International maritime dangerous goods code
IATA - International Air Transport Association
ICAO - International Civil Aviation Organisation
COD - Chemical Oxygen Demand
BOD5 - 5-day biochemical oxygen demand
BCF - Bio concentration factor
LD50 - Lethal Dose 50
CL50 - Lethal Concentration 50
EC50 - Effective concentration 50
Log-POW - Octanol–water partition coefficient
KOC - PARTITION COEFFICIENT OF ORGANIC CARBON

**Date of revision**: 19/07/2019

**Version**: 3

**Notice to reader**

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