



## SAFETY DATA SHEET

### METHOS

Reg No: L 11114 (Act 36 of 1947)

#### Section 1. Identification of the material and the supplier

Product: **METHOS**  
Product Use: Adjuvant  
Restriction of Use: Refer to Section 15

Supplier: **AgriTech Bioscience (Pty) Ltd. t/a Carabiner**  
Address: PO Box 1224  
Isando, 1600  
South Africa  
TEL: 071 546 5077  
[www.carabiner.co.za](http://www.carabiner.co.za)

**Emergency No:** POISON CENTRE (UNITAS HOSPITAL) 012 664 1100  
TYGERBERG 021 931 6129  
RED CROSS 021 689 5227  
RAPID SPILL RESPONSE 0800 775 3305  
GRIFFON POISON CENTRE 082 446 8946

Date of SDS Preparation: 19 April 2023

#### Section 2. Hazards Identification

##### Classification of the substance or mixture

##### Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Skin Corrosion/Irritation Cat. 3; H316  
Serious Eye Damage Cat. 1; H318  
Aquatic Acute Cat. 1; H400  
Aquatic Chronic Cat. 1; H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

##### Label elements

##### Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]



Pictograms

Signal Word: **DANGER**

**Hazard statement(s)**

H316 – Causes mild skin irritation

H318 – Causes serious eye damage

H400 – Very toxic to aquatic life

H410 -Very toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

**General:**

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instruction.

**Prevention:**

P264 + P265 – Wash hands thoroughly after handling. Do not touch eyes.

P273 – Avoid release into the environment.

P280 – Wear eye protection/face protection.

**Response:**

P305 + P354 + P338 – IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P317 – Get medical help.

P332 + P317 – If skin irritation occurs: Get medical help.

P391 – Collect spillage.

**Storage:**

-

**Disposal:**

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.

Supplemental Hazard Statements: none

**2.3 Other**

**Other hazards**

No other hazards known

**Section 3. Composition / Information on Hazardous Ingredients**

**Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]**

<b>Ingredients</b>	<b>Concentration of hazardous ingredient in composition</b>	<b>CAS NUMBER.</b>
Fatty alcohol ethoxylate	Total Active Ingredients = 912 g/kg	-
Other non-hazardous ingredients	To balance	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **Section 4. 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.

Routes of Exposure:

**If in Eyes** Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove any contact lenses after 5 minutes. Get medical attention if necessary.

**If on Skin** Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

**If Swallowed** Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Induce vomiting immediately as directed by medical personnel. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice if necessary.

**If Inhaled** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Do NOT give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

#### **Most important symptoms and effects, both acute and delayed**

**Inhalation:** May cause irritation to the mucous membranes of the respiratory tract. May be absorbed from the mucous membranes and depending on the amount of exposure could result in the development of nausea, vomiting, and diarrhoea.

**Ingestion:** Symptoms parallel absorption via inhalation.

**Skin Contact:** May cause skin irritation. Not significantly absorbed through the intact skin. Readily absorbed through damaged or burned skin.

**Eye Contact:** Causes irritation, redness and pain.

**Chronic exposure:** Prolonged absorption causes weight loss, vomiting, diarrhoea, and skin rash.

**Treatment:**

**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:** Treat symptomatically.

**Section 5. Fire Fighting Measures**

<b>Hazards from products</b>	Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Decomposition products may include carbon monoxide fumes, carbon dioxide fumes.
<b>Suitable Extinguishing media</b>	Use dry chemical, Carbon Dioxide, dry powder or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock.
<b>Recommended protective clothing &amp; Precautions for firefighters</b>	Remove spectators from surrounding area and isolate the fire area. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Keep upwind and away from low areas where the fumes can accumulate. Eliminate ignition sources. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Dispose of extinguishing agent and spillage in a safe way at a later stage. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.

**Section 6. Accidental Release Measures****Personal precautions:**

Ventilate area of leak or spill. Wear appropriate personal protective equipment.

**Environmental precautions:**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Collect spillage.

**Spill and Disposal procedures:****Cleaning procedure:****Spills:**

Dilute with water and mop up, or absorb with sand or an inert dry material and put in a suitable container for reclamation or disposal. If necessary, neutralize the residue with a dilute solution of sodium carbonate.

**Large Spills:**

Dyke far ahead of liquid spills for later disposal. Absorb with sand or an inert dry material and put in a suitable container for reclamation or disposal. Prevent entry of the substance into waterways, sewers, basements or confined areas.

**Waste Disposal:** Dispose of absorbed materials according to local regulations. Collect waste into suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and a detergent, while observing environmental regulations. Incinerate or take to a special waste disposal site according to local regulations.

**Container Disposal:** Refer to the product label for instructions. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.

### Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

## Section 7. Handling and Storage

### Precautions for 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)

KEEP OUT OF REACH OF CHILDREN and animals.

### Precautions for Storage:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

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

**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****Occupational exposure limits:**

No information available.

**Engineering Controls / Industrial Hygiene**

Comply with occupational safety, environmental, fire and other applicable regulations. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal Protection Equipment**

<b>Eyes</b>	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.
<b>Hands</b>	Protective gloves against minor risks.
<b>Skin</b>	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. 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.
<b>Respiratory</b>	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.
<b>General</b>	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.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Straw coloured
<b>Odour</b>	Fatty odour
<b>Odour Threshold</b>	Non-applicable
<b>pH</b>	4 - 6
<b>Boiling/Melting Point</b>	>217°C
<b>Freezing Point</b>	Non-applicable
<b>Flash Point</b>	Non-applicable
<b>Flammability</b>	Non-applicable
<b>Upper and Lower Explosive Limits</b>	Non-applicable
<b>Vapour Pressure</b>	Non-applicable
<b>Vapour Density</b>	10.22
<b>Density</b>	0.912
<b>Water Solubility</b>	Forms an emulsion in water
<b>Partition Coefficient:</b>	Non-applicable
<b>Ignition Temperature</b>	Non-applicable

<b>Decomposition Temperature</b>	Non-applicable
<b>Viscosity</b>	Non-applicable
<b>Particle Characteristics</b>	Non-applicable
<b>Surface tension</b>	Non-applicable

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable under normal conditions. Stable for 24 months. No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.
<b>Possibility of hazardous reactions</b>	Will not occur under normal conditions of storage, handling and use.
<b>Conditions to Avoid</b>	Applicable for handling and storage at room temperature.
<b>Incompatible Materials</b>	Store only in original containers. Oxidizing agent, reducing agents, metals, acids, alkalis.
<b>Hazardous Decomposition Products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### Acute Effects:

<b>Oral</b>	Rat > 500 mg/kg
<b>Dermal</b>	Rabbit > 2000 mg/kg
<b>Inhalation</b>	GHS: Not classified
<b>Eye</b>	GHS: Serious Eye Damage Cat. 1
<b>Skin</b>	GHS: Skin Irritation Cat. 2

### Chronic Effects:

<b>Carcinogenicity</b>	GHS: Not classified
<b>Reproductive Toxicity</b>	GHS: Not classified
<b>Germ Cell Mutagenicity</b>	GHS: Not classified
<b>Aspiration</b>	GHS: Not classified
<b>STOT/SE</b>	GHS: Not classified
<b>STOT/RE</b>	GHS: Not classified

## Section 12. Ecotoxicological Information

<b>Ecological effects information</b>	Acute fish toxicity [LC <sub>50</sub> mg/L] (48 h, flow-through): 88 mg./L (96 h) Fathead minnow 0.08 mg./L (24 h) Rainbow trout
<b>Persistence and degradability</b>	Readily biodegradable
<b>Bioaccumulation</b>	No data available. Bioaccumulation in the environment is highly unlikely.
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No known significant effects or critical hazards.

**Precautions:**

Do not allow to enter waterways.

**Section 13. Disposal Considerations****Disposal Method:**

The generation of waste should be avoided or minimized 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.

**Contaminated packaging:**

Refer to the product label for instructions. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

Do not transport if this container is damaged or leaking.

**Special precautions during disposal:**

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****Rail/road (RID/ADR):**

<b>Proper shipping name</b>	Not regulated
<b>UN number</b>	-
<b>Class</b>	-
<b>Packing group</b>	-
<b>Environm. Haz. Mark</b>	-

**Sea (IMDG code):**

<b>Proper shipping name</b>	Not regulated
<b>UN number</b>	-
<b>Class</b>	-
<b>Packing group</b>	-
<b>Marine pollutant</b>	-

**Air (ICAO/IATA):**

<b>Proper shipping name</b>	Not regulated
<b>UN number</b>	-
<b>Class</b>	-
<b>Packing group</b>	-
<b>Environm. Haz. Mark</b>	-

**Section 15 Regulatory Information****Safety, health and environmental regulations/legislation specific for the**



**substance or mixture**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

<b>Section 16</b>	<b>Other Information</b>
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For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

The information herein is given in good faith, but no warranty, express or implied is made.

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