



First print date: 2022/10/14

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Identification as on the label/Trade name: ToneUp™

Additional information: Reg. No. M267 Act 36 of 1947

1.2 Relevant identification uses of the substance and uses advised against:

Identified uses: Fertiliser for use in agriculture.

Uses advised against: Only for agricultural use.

1.3 Details of the supplier:

Microbial Plus
3 Windsor Glen
17 Windsor Avenue
Margate KZN
4275
SOUTH AFRICA

1.4 Emergency telephone number:

+27 82 906 4478

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substances or mixture:

The mixture is classified according to:

SANS 10234:2019, Regulation UN GHS
Hazard classes/Hazard categories
Not classifiable in terms of GHS

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: None.

2.2 Label elements:

Hazard pictograms: Not required.

Signal Word: Not required.

Hazard Statements: Not required.



Precautionary Statements: P102 Keep out of reach of children. P202 Do not handle until all safety precautions have been read and understood. P501 Dispose of contents/ container to an approved waste disposal plant.

Special labelling of certain mixtures: None.

2.3 Other hazards:

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Substance/Mixture:

Mixture

Ingredients: Classification as non-hazardous. Contains a mixture of the following (5 bacillus) 4×10^{10} CFU /ml.
2x *Bacillus laterosporus*, 2x *Bacillus licheniformis*, 1x *Bacillus amyloliquefaciens*.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations, applicable are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Remove the victim from the area of exposure. Provide First aid where needed.

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation persists.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation persists.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

Inhalation: No spontaneous symptoms known.

Ingestions: No spontaneous symptoms known.

Skin contact: No spontaneous symptoms known.

Eye contact: No spontaneous symptoms known.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5: FIRE -FIGHTING MEASURES

5.1 Extinguisher media:

Suitable extinguisher media: Use an extinguishing agent suitable for the surrounding fire, sprayed water, water mist, foam, dry powder, or CO₂.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

5.2 Special hazards arising from the mixture:



Fire may produce irritating vapours /mists or other products of combustion.

5.3 Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:**

For non-emergency personnel: Keep all personal away.

For emergency responders: Isolate the spill area and limit the access to emergency responders only. Avoid any contact with spilled material, use adequate protective clothes and gloves.

6.2 Environmental precautions:

Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

6.3 Methods for containment and cleaning up:

For small spills: Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite or diatomaceous earth. Prevent any material from entering drains or waterways. Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

For large spills: Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite or diatomaceous earth. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal. Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

6.4 Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

7.2 Conditions for safe storage, including incompatibilities:



Keep out of reach of unauthorised persons, children and animals. Store in its original, labelled and closed container in dry, cool, shaded well-ventilated area. Do not store with other pesticides, fertilizer, treated seeds, foodstuffs and water supplies. Store away from incompatible substances.

7.3 Specific end uses:

Use as directed. Use original container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limits (OEL): There are no occupational exposure limits allocated.

Biological exposure indices (BEI): There are no biological limit values allocated.

Additional exposure limits under the conditions of use: None.

8.2 Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists below their respective OEL's if applicable. Ensure that eyewash stations and safety showers are proximal to the workstation location.

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: Use safety glasses. If there is a potential for exposure to mist which could cause eye discomfort, wear chemical safety glasses/ goggles.

Hand protection: Chemical-resistant impervious gloves complying with an approved standard should always be worn when handling chemical products if a Risk Assessment indicates this is necessary. Examples of preferred glove barrier materials include, butyl rubber, neoprene, nitrile/butadiene rubber, polyethylene, ethyl vinyl alcohol laminate, polyvinyl alcohol, polyvinyl chloride.

Body protection: Wear appropriate clothing for task or operation. Keep working clothes separately.

Respiratory protection: Respiratory protection is required when ventilation is inadequate, or discomfort is experienced due to mist formation; use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance (form): Free flowing liquid.

Colour: Tan.



Odour: Fermenting odour.

pH (at concentration): Not applicable.

Melting point/range (°C): Not applicable.

Boiling point/range (°C): Not applicable.

Flash point (°C): Not applicable.

Flammability (solid, gas): Not flammable.

Ignition temperature (°C): No information available.

Specific gravity: 1.043 at 22.3°C.

Water solubility (g/l) at 20°C: Dispersible in water.

Decomposition temperature: No information available.

9.2 Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No information available.

10.2 Chemical stability:

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3 Possibility of hazardous reactions:

According to our knowledge, this product does not present any particular hazard under normal conditions of use and storage.

10.4 Conditions to avoid:

None known.

10.5 Incompatible materials:

Keep away from acids and nitrogen containing compounds.

10.6 Hazardous decomposition products:

None known.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Toxicokinetics, metabolism and distribution:**

Non-human toxicological data: No Information available.

11.2 Information on toxicological effects:

Acute toxicity: Not classified. Based on the available data, the classification criteria are not met.

Skin corrosion/irritation: Not classified. Based on the available data, the classification criteria are not met.

Eye corrosion/irritation: Not classified. Based on the available data, the classification criteria are not met.

Respiratory or skin sensitization: Not classified. Based on the available data, the classification criteria are not met.

Germ cell mutagenicity: Not classified. Based on the available data, the classification criteria are not met.

Carcinogenicity: Not classified. Based on the available data, the classification criteria are not met.

Reproductive toxicity: Not classified. Based on the available data, the classification criteria are not met.

STOT-single exposure: Not classified. Based on the available data, the classification criteria are not met.

STOT-repeated exposure: Not classified. Based on the available data, the classification criteria are not met.

Aspiration hazard: Not classified. Based on the available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity:**

Not classified. Based on the available data, the classification criteria are not met.

12.2 Persistence and degradability:

No information available.

12.3 Bioaccumulative potential:

No information available.

12.4 Mobility in soil:

No information available.

12.5 Results of PBT& vPvB assessment:

No information available.

12.6 Endocrine disrupting properties:

No information available.

12.7 Other adverse effects:

No information available.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods:**

Empty, rinsed containers/bags should be taken for local recycling or waste disposal or incineration. Do not re-use empty containers/bags. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

13.2 Product/ packaging disposal:

Prevent contamination of food, feedstock and drinking water. Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name:	Not regulated	Not regulated	Not regulated
Transport hazard class:	Not regulated	Not regulated	Not regulated
Packaging group:	Not regulated	Not regulated	Not regulated
Marine pollutant:	No	No	No
Special precautions for user:	Not regulated	Not regulated	Not regulated
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not regulated	Not regulated	Not regulated

Emergency response information: No information

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation for the mixture:**

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH).

Relevant information regarding restrictions: None.

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.
National Environmental Management: Waste Act 59 of 2008.

15.2 Chemical Safety Assessment carried out?

No.

**SECTION 16: OTHER INFORMATION****16.1 Indication of changes:**

GHS aligned.

16.2 Relevant classification and H statements (number and full text):

None.

16.3 Training instructions:

Use as indicated on the label, special training may be required for application.

16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.5 Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.