

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: OptiYield Activator
Address/Phone No. **Emerald Crop Science Ltd.**
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Additional Information: Info@micromix.com

Use of Substance / Preparation: Agricultural/Horticultural use only.

2. HAZARDS IDENTIFICATION

EC Classification:
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification According to Directive 67/548/EEC:
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC..

Hazard statement(s):
none

Precautionary Statement(s):
none

Hazard symbol(s):
none

R-phrase(s):
none

S-phrase(s):
none

Supplemental Hazard statements
None

Other Hazards

This substance/mixture contains no components to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		
Ammonium Sulphate		Nominal concentration.
CAS-No. :	7783-20-2	29%
EC-No. :	-	
Index-No. :	-	
Calcium Lignosulphonate		
--	-	2%
Citric acid		
CAS-No. :		0.5%
EC-No. :		
Index-No. :		
Humic acid mix		
-	-	0.016%
Vinasses		
-	-	10%

Full list of R phrases in section 16

4. FIRST AID MEASURES**General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance

Inhalation

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

Skin Contact

Wash off with soap and plenty of water. Consult a physician.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Further Medical information

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

5. FIRE-FIGHTING MEASURES

Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards	Sulphur oxides, Nitrogen oxides
Unsuitable Extinguishing Media	-
Fire Fighting Protective Equipment	Wear self-contained breathing apparatus for firefighting if necessary.
Extinguishing method	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid dust generation. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation. For personal protection see section 8.
Environmental Exposure Controls	Do not allow to enter drains, sewers or watercourses. If substance has entered a watercourse or sewer or contaminated soil or vegetation.
Cleaning Up Methods	Sweep up and shovel into waste drums or plastic bags. Ensure adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact.

7. HANDLING AND STORAGE

HANDLING	Adequate ventilation must be used. Good hygiene practices and housekeeping measures, Wash hands before breaks and after work. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. For precautions see section 2.2.
STORAGE	Store in a cool/low-temperature, well-ventilated (dry) place.
Storage Temperature:	-
Storage Life:	Stable at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Agricultural use only.



Eye Protection Safety spectacles.



Gloves Plastic or synthetic rubber gloves.

Other Contaminated clothing should be thoroughly cleaned.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder
Colour	Brown
Odour	No data.
pH (Value)	No data.
Melting Point (°C)	No data.
Flash Point (°C)	No data.
Flammable Limits	No data.
Explosive Properties	No data.
Oxidising Properties	No data.
Vapour Pressure (Pascal)	No data.
Density (Kg/L)	No data.
Solubility (Water)	No data.
Solubility (Other)	No data.
Viscosity (mPa.s)	No data.
Vapour Density (Air=1)	No data.
Relative Evaporation Rate (Ether = 1)	No data.

10. STABILITY AND REACTIVITY**Hazardous Reactions**

Hazardous Decomposition Product(s)	No data.
Conditions to avoid:	No data.
Incompatible materials:	Strong oxidizing agents, Strong bases

11. TOXICOLOGICAL INFORMATION

None of these effects are likely to occur under normal conditions of use, provided exposure is maintained at or below the relevant occupational exposure limits.

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: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity:

Reproductive toxicity - rat - Subcutaneous

Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Physical.

Developmental Toxicity - rat - Intraperitoneal

Effects on Embryo or Fetus: Other effects to embryo. Specific Developmental Abnormalities: Hepatobiliary system.

Specific target organ toxicity — single

exposure:

No data available

Specific target organ toxicity — repeated

exposure:

No data available

Aspiration hazard:

No data available

Effects and Symptoms:

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

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and VPVB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Further Ecological information

no data available

13. DISPOSAL CONSIDERATIONS

Contact supplier for specialised advice.

Regulatory information

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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Emerald Crop Science Ltd.

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Recommended:**Product**

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging

Dispose of this container to hazardous or special waste collection point.

14. TRANSPORT INFORMATION

Not dangerous goods.

15. REGULATORY INFORMATION

This Safety Data sheet has been prepared in accordance with DIRECTIVE 67/548/EEC and CPL-REGULATON (EC) NO 1272/2008 and Annex II of EU Regulation (EC) No 453/2010 (REACH) Directive 98/24/EC and Directive 2000/39/EC

16. OTHER INFORMATION

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Micromix Plant Health Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Micromix Plant Health Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Version: 1

Revision date:

Date of issue:

Supersedes: