



Safety Data Sheet

Issue Date no data available

Revision Date 05-Mar-2018

Version: 1

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

Product Identifier:

Product Name: Micromax Micronutrients Granular

Other Means of Identification:

Product ID: G90505C

Synonyms: None

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: Fertilizer

Uses Advised Against: No information available

Details of the Supplier of the Safety Data Sheet:

Initial Supplier Identifier

Everris NA Inc.
P.O. Box 3310
Dublin, OH 43016

Emergency Telephone Numbers:

Emergency Telephone CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-800-492-8255

2. HAZARDS IDENTIFICATION

Classification 67/548/EEC

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

Label Elements:

Warning

Hazard statements

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of water and soap
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information:

Very toxic to aquatic life with long lasting effects

7.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ferrous Sulfate Monohydrate (Iron Sulfate) 17375-41-6	17375-41-6	40-60	-	-
Dolomite	16389-88-1	20-30	-	-

16389-88-1				
Manganese Sulfate Monohydrate 10034-96-5	10034-96-5	1-10	-	-
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O 7758-99-8	7758-99-8	1-5	-	-
Zinc sulphate mono hydrate; ZnSO ₄ +1H ₂ O 7446-19-7	7446-19-7	1-5	-	-
Sodium Tetraborate Pentahydrate 12179-04-3	12179-04-3	<1	-	-

4. FIRST AID MEASURES

First Aid Measures:

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash with plenty of water. If skin irritation persists, call a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most Important Symptoms and Effects (Acute and Chronic):

Symptoms No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical, CO₂, alcohol-resistant foam or water spray.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical No information available.

Hazardous Combustion Products: Toxic fumes may be produced.

Specific methods:
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal precautions Avoid dust formation. Ensure adequate ventilation. Sweep-up to prevent slipping hazard. Avoid contact with eyes.

Environmental Precautions:

Environmental precautions Do not contaminate surface water. Prevent product from entering drains.

Methods and Material for Containment and Cleanup:

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage, Including any Incompatibilities:

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate Engineering Controls:

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State: Solid
Appearance: flakes
Color: grey
Odor: Fertilizer
Odor Threshold: No information available

<u>Property</u>	<u>Values</u>	<u>Remarks: • Method</u>
pH:	No information available	No information available
Melting Point/Freezing Point:	No information available	No information available
Boiling Point/Range:	No information available	No information available
Flash Point:	No information available	No information available
Evaporation Rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure:	No information available	No information available
Vapor Density:	No information available	No information available
Relative density	No information available	No information available
Water Solubility:	No information available	No information available
Solubility in other Solvents:	No information available	No information available
Partition Coefficient:	No information available	No information available
Autoignition Temperature:	No information available	No information available
Decomposition Temperature:	No information available	No information available
Kinematic Viscosity:	No information available	No information available
Dynamic Viscosity:	No information available	No information available
Explosive properties	No information available.	
Oxidizing properties	No information available.	

Other Information:

Softening Point: No information available
Molecular Weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk Density: No information available

10. STABILITY AND REACTIVITY

Reactivity: No information available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous Decomposition Products: Combustion produces caustic fumes.

Conditions to Avoid: None known based on information supplied.

Incompatible Materials: None known based on information supplied.

Hazardous Decomposition Products: None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Product Information

Inhalation Specific test data for the substance or mixture is not available.
Eye contact Specific test data for the substance or mixture is not available.
Skin contact Specific test data for the substance or mixture is not available.
Ingestion Specific test data for the substance or mixture is not available.

Information on Toxicological Effects:

Symptoms No information available.

Numerical Measures of Toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 791.00 mg/kg
ATEmix (dermal) 14,955.00 mg/kg

Unknown acute toxicity No information available
 7.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

LD50/oral: No information available

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O - 7758-99-8	= 960 mg/kg (Rat) = 300 mg/kg (Rat)	> 2 g/kg (Rat)	Ne
Sodium Tetraborate Pentahydrate - 12179-04-3	= 2403 mg/kg (Rat)	Ne	Ne

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Skin corrosion/irritation No information available.
Serious eye damage/eye irritation No information available.
Respiratory or skin sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	Sodium Tetraborate Pentahydrate - 12179-04-3
ACGIH - Carcinogens	A4
IARC:	-
NTP Report on Carcinogens List -	-
OSHA	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
 A4 - Not Classifiable as a Human Carcinogen

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Marine pollutant if transported by vessel over water.

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O - 7758-99-8	-	0.66 - 1.15: 96 h Lepomis macrochirus mg/L LC50 semi-static 0.96 - 1.8: 96 h Lepomis macrochirus mg/L LC50 static 0.1478 - 0.165: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.09 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 static 0.6752: 96 h Pimephales promelas mg/L LC50 static	-	0.147 - 0.227: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: Water contaminating.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT: Marine pollutant if transported by vessel over water.
UN-No: UN 3077
Proper shipping name: Environmentally Hazardous Substance, solid, n.o.s., (copper sulfate, zinc sulfate)
Hazard Class: 9
Packing group: III
Special Provisions DOT (Land): Not DOT Regulated Only for Aircraft or Vessel For domestic shipments marine pollutant container mark and shipping paper entry only apply to bulk and vessel transport
Marine Pollutant: Marine pollutant if transported by vessel over water.

IATA Regulated
Proper shipping name: Environmentally Hazardous Substance Solid N.O.S., (copper sulfate, zinc sulfate)
Hazard Class: 9

Packing group: III

IMO / IMDG Regulated
UN-No: UN 3077
Proper shipping name: Environmentally Hazardous Substance Solid N.O.S., (copper sulfate, zinc sulfate)
Hazard Class: 9
Packing group: III
Marine Pollutant: This material meets the definition of a marine pollutant

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS) Not applied
 Persistent Organic Pollutants Not applied
 The Rotterdam Convention Not applied

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA:	Health hazards 2	Flammability 0	Instability 0	Physical and chemical properties -
HMIS Health Rating:	Health hazards 2 *	Flammability 0	Physical hazards 0	Personal protection X

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Ceiling Limit)	Ceiling	Maximum limit value
*	Skin designation				

Revision Date 05-Mar-2018

Revision Note: *** Indicates changes since the last revision. This version replaces all previous versions.

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.