



Safety Data Sheet

Last Revision Date 06-Sep-2017

Version: 1.01

1. IDENTIFICATION

Product identifier

Product Name: Agriform® Planting Tablets 20-10-5 Plus Minors
Product Number(s): G90805
Formula No.: S16425

Description: Slow Release Fertilizer

Recommended use of the chemical and restrictions on use

Restricted to professional users

Company:

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

24-HOUR EMERGENCY TELEPHONE NUMBERS:

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

2. HAZARD(S) IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 1

Label Elements:

Danger

Hazard Statements:

Causes serious eye damage



Appearance: tablet

Physical state Solid

Odor: Fertilizer

Precautionary Statements - Prevention

Wear eye protection/ face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor

Hazards Not Otherwise Classified (HNOC):

Not applied

Other Information

Causes mild skin irritation. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

Unknown Acute Toxicity: 8.86% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
Triple superphosphate; TSP	7758-23-8	20 - 30%	*
Iron sulphate; FeSO ₄ +1H ₂ O	7720-78-7	1 - 5%	*
Calcium sulfate anhydrous; CaSO ₄	7778-18-9	1 - 5%	*
Sodium borate; Na ₂ B ₄ O ₇	1330-43-4	0.1 - 1%	*
Copper sulphate anhydrous; CuSO ₄	7758-98-7	0.1 - 1%	*
Zinc sulphate+1H ₂ O; ZnSO ₄ +1H ₂ O	7446-19-7	0.1 - 1%	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Description of first aid measures

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact: Call a poison control center or doctor for treatment advice. Take off contaminated clothing. Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a POISON CENTER or doctor.

Ingestion: Call a physician or Poison Control Centre immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical. Water spray. Chemical foam.

Unsuitable Extinguishing Media: High volume water jet.

Specific hazards: Dust may form explosive mixture in air.

Hazardous Combustion Products Combustion can produce toxic fumes and irritating gases.

Explosion Data:

Sensitivity to Mechanical Impact: no data available.

Sensitivity to Static Discharge: no data available.

Special Protective Equipment for Firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear personal protective equipment. Do not get in eyes.

Environmental precautions: Avoid subsoil penetration.

Methods and material for containment and cleaning up

Methods for containment: Follow good housekeeping practices.

Methods for Cleanup: If material is uncontaminated, collect and reuse as recommended for product.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Avoid container breakage. Do not get in eyes. Keep out of reach of children and pets. Keep out of lakes, streams or ponds.

Conditions for safe storage, including any incompatibilities

Storage: 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.

Chemical name	ACGIH TLV	OSHA:	ACGIH:	IDLH:
Iron sulphate; FeSO ₄ ·1H ₂ O 7720-78-7	-	-	1 mg/m ³ TWA	-
Calcium sulfate anhydrous; CaSO ₄ 7778-18-9	TWA: 10 mg/m ³ inhalable particulate matter	15 mg/m ³ TWA 5 mg/m ³ TWA	10 mg/m ³ TWA	-
Sodium borate; Na ₂ B ₄ O ₇ 1330-43-4	TWA: 2 mg/m ³ inhalable particulate matter STEL: 6 mg/m ³ inhalable particulate matter	-	2 mg/m ³ TWA	-
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	-	-	1 mg/m ³ TWA	100 mg/m ³ IDLH Cu

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 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 Wash hands and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid
Color: green, blue
Appearance: tablet
Odor: Fertilizer

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	No data available	
Melting Point/Freezing Point:	Not applicable	
Boiling Point/Range:	No data available	
Flash Point:	No data available	
Evaporation Rate:	no data available	
Flammability (solid, gas):	No data available	
Flammability Limits in Air:		
Upper Flammability Limit:	No data available	
Lower Flammability Limit:	No data available	
Vapor Pressure:	No data available	
Vapour density	No data available	
Relative density	no data available	
Solubility:	no data available	
Solubility in other Solvents:	no data available	
Partition Coefficient:	no data available	
Autoignition Temperature:	No data available	
Hyphen	no data available	
Kinematic Viscosity:	No data available	
Dynamic Viscosity:	no data available	
Explosive Properties:	no data available	
Oxidizing Properties:	Not considered an oxidizer	

Other information

Softening Point: no data available
Molecular Weight: no data available
VOC Content (%) No data available
Density: no data available
Bulk density: 45-65 lbs/cu.ft.

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions
Remarks:

Chemically Stable: Stable under recommended storage conditions.

Conditions to Avoid: Protect from extremes of temperature.

Materials to avoid Oxidizing agent.

Hazardous Decomposition Products: Toxic fumes and gases may be generated. Metal oxides possible.

Possibility of Hazardous Reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms no data available.

Numerical measures of toxicity

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

Oral LD50 21,106.00 mg/kg

Unknown Acute Toxicity: 8.86% of the mixture consists of ingredient(s) of unknown toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triple superphosphate; TSP 7758-23-8	= 3986 mg/kg (Rat)	> 2 g/kg (Rabbit)	-
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7	= 500 mg/kg (Rat)	-	-
Calcium sulfate anhydrous; CaSO ₄ 7778-18-9	> 3000 mg/kg (Rat)	-	-
Sodium borate; Na ₂ B ₄ O ₇ 1330-43-4	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2 mg/m ³ (Rat) 4 h
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-

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

Skin corrosion/irritation	no data available.
Serious eye damage/eye irritation	no data available.
Respiratory or skin sensitization	no data available.
Germ Cell Mutagenicity	no data available.
Carcinogenicity	no data available.
Reproductive Toxicity	no data available.
STOT - Single Exposure	no data available.
STOT - Repeated Exposure	no data available.
Aspiration Hazard	no data available.

12. ECOLOGICAL INFORMATION

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7	-	LC50: =0.56mg/L (96h, Cyprinus carpio) LC50: =925mg/L (96h, Poecilia reticulata)	-	EC50: 6.15 - 9.26mg/L (48h, Daphnia magna) EC50: =152mg/L (48h, Daphnia magna)
Calcium sulfate anhydrous; CaSO ₄ 7778-18-9	-	LC50: =2980mg/L (96h, Lepomis macrochirus) LC50: >1970mg/L (96h, Pimephales promelas)	-	-
Sodium borate; Na ₂ B ₄ O ₇ 1330-43-4	158: 96 h Desmodesmus subspicatus mg/L	LC50: =340mg/L (96h, Limanda limanda)	-	LC50: 1085 - 1402mg/L (48h, Daphnia magna)
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	-	LC50: =0.1mg/L (96h, Oncorhynchus mykiss)	-	0.024: 48 h Daphnia magna mg/L EC50

Persistence and Degradability: no data available.

Bioaccumulation No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Do not reuse container.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land) Not regulated
DOT (AIR) Not regulated
DOT (Vessel) Not regulated
IATA (Air) Not regulated
IMO/IMDG (Vessel) Not regulated

15. REGULATORY INFORMATION

Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories:

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act):

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants	Clean Water Act - Hazardous Substances
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7	-	-	-	Present
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	-	-	-	Present

CERCLA:

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	CERCLA/SARA 313	CERCLA/SARA RQ
Iron sulphate; FeSO ₄ +1H ₂ O 7720-78-7	1000 lb final RQ 454 kg final RQ	-
Copper sulphate anhydrous; CuSO ₄ 7758-98-7	10 lb final RQ 4.54 kg final RQ	-
Zinc sulphate+1H ₂ O; ZnSO ₄ +1H ₂ O 7446-19-7	1000 lb final RQ 454 kg final RQ	-

California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations:

State Regulations (RTK): no data available

U.S. EPA Label information:

EPA Pesticide Registration Number: Not applied

16. OTHER INFORMATION

NFPA: Health hazards 2 Flammability 3 Reactivity: 1

HMIS: Health hazards 2 Flammability - Reactivity: 1

Prepared by Regulatory Affairs Department

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Reason for revision *** Indicates changes since the last revision. This version replaces all previous versions

Disclaimer

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End of Safety Data Sheet