

# **GRAVITY® S MicroSurge**

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** GRAVITY® S MicroSurge

FORMULA: Preparation/Mixture

PRODUCT USE: Supplement for professionally maintained golf courses, sport turf, lawn, and landscaping.

**DISTRIBUTED BY:** Heritage Landscape Supply Group

7440 TX-121

McKinney, TX 75070

Non-Emergency 1-855-565-1507

Business Inquiries: Mon-Fri 8am – 5pm (Central Standard Time)

EMERGENCY PHONE NUMBERS(S) - 24 hour assistance

Medical Emergencies: 1-866-767-5042

For Chemical Emergency Involving a Spill, Leak, Fire, Exposure or Accident: CHEMTREC 1-800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION** 

**Appearance:** Tan - Blend of crystals and powders

**GHS Hazard Classifications:** Eye damage/irritation – Category 2b

Acute toxicity (oral) – Category 4 Skin corrosion/irritation – Category 2

<1.0% of mixture consists of ingredients of unknown acute toxicity.

**Pictograms:** 

Signal Word: WARNING

**Hazard Statements:** Causes eye and skin irritation.

Harmful if swallowed.

**Precautionary Statements:** 

Prevention Wash face, hands and any exposed skin thoroughly after handing.

Do not eat, drink or smoke when using this product.

Wear protective gloves, protective clothing, eye protection and face protection.

Response IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

attention.

**IF SWALLOWED:** Rinse mouth. Call a poison control center or doctor for treatment

advice if you feel unwell.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical

attention. Take off contaminated clothing and wash it before reuse.

Storage See section 7 for information on storage.

Disposal Dispose of contents/container in accordance with Federal, state and local regulations.

**Hazards Not Otherwise Classified** 

(HNOC)

None

**Other Information:** Very toxic to aquatic life with long lasting effects.

**Transportation Classification:** Not classified as hazardous based on IATA, IMDG, and DOT



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**Fire and Explosion:** Not considered flammable or combustible, but this product will burn if involved in a fire. Product emits toxic fumes when burned.

**NFPA Rating:** 

Health	Flammability	Reactivity	Special
(Blue)	(Red)	(Yellow)	(White)
1	0	1	

### **SECTION 3: COMPOSITION, INFORMATION ON INGREDIENTS**

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER
Non-hazardous ingredients	<10		
Iron Glycinate	<30	20150-34-9	
Manganese Glycinate	<20	6912-28-3	
Zinc Glycinate	<5	14281-83-5	238-173-1
Iron EDTA	<30	15708-41-5	239-802-2
Magnesium Sulfate	<15	7487-88-9	242-691-3

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

### **SECTION 4: FIRST AID MEASURES**

**Inhalation** Remove person from contaminated area to fresh air and assist breathing as needed.

Seek medical attention if irritation occurs.

**Skin Contact** Wash skin with plenty of soap and water for at least 15 minutes. If skin irritation occurs

get medical attention. Remove contaminated clothing and wash it before reuse.

**Eye Contact** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call doctor for treatment advice if irritation persists.

**Ingestion** Rinse mouth. Do not induce vomiting unless told to do so by a poison control center or

doctor. Never give anything to an unconscious person. Get medical attention if you

feel unwell.

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

Symptoms/Injuries after Inhalation May cause respiratory tract irritation.

Symptoms/Injuries after Skin Contact Causes skin irritation. Symptoms may include redness, drying,

defatting, and cracking of the skin.

Symptoms/Injuries after Eye Contact Causes eye irritation. Symptoms may include discomfort or pain,

excess blinking and tear production, with possible redness and

swelling.

Symptoms/Injuries after Ingestion Harmful if swallowed. Effects may include diarrhea, vomiting.

#### Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

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### **SECTION 5: FIRE-FIGHTING MEASURES**

Suitable extinguishing media Use foam, dry chemical, carbon dioxide, or any media suitable to extinguish

the surrounding fire

**Special hazards arising from the mixture** Release of toxic gases at elevated temperatures

**Protective actions fire-fighters**Wear standard protective equipment and self-contained breathing apparatus

for firefighting if necessary.

**Further information** Decomposes on heating. This produces sulfur oxides and manganese oxides.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing dust.

### **Environmental precautions**

Prevent further spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

### Methods and materials for containment and cleaning up

In case of small spills, use appropriate tools to put the spilled material in a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

In case of large spills, use a shovel to put the material into a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

#### Reference to other Sections

For personal protection reference section 8. For disposal reference section 13.

#### SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Use only with adequate ventilation.

Do not inhale dust.

Keep out of reach of children.

Wear proper protective equipment when handling this material.

Avoid contact with skin, eyes, or clothing.

Wash face, hands and any exposed skin thoroughly after handing.

A plastic container should be used for disposal.

For additional precautions see section 2.

#### Conditions for safe storage, including any incompatibilities

Store upright in a cool, dry place.

Keep container closed when not in use.

Keep away from heat, sparks, flame, direct sunlight, and other possible sources of ignition.

Do not store with acid, metallic oxide, amines, and combustible materials.

Utilize chemical segregation.

Follow all applicable local regulations for handling and storage.

### Specific uses

This product is intended to be used as a supplement for professionally maintained golf courses, sport turf, landscaping and specialty crops.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
Iron Glycinate			
Iron EDTA			
Magnesium Sulfate			
Manganese Glycinate (Mn compounds)	5 mg/m³	5 mg/m³	
Zinc Glycinate			

NIOSH-- No Occupational exposure values

**Exposure controls** 

VENTILATION: Always provide good general, mechanical room ventilation where

this chemical/material is used.

SPECIAL VENTILATION CONTROLS: None

RESPIRATORY PROTECTION: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the

CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

PROTECTIVE GLOVES: Neoprene, butyl, or nitrile rubber gloves are recommended.

EYE PROTECTION: Wear chemical goggles or safety glasses. Contact lenses are not eye

protective devices.

SKIN PROTECTION: Suitable protective clothing to prevent skin contact.

WORK/HYGIENE PRACTICES: Avoid breathing dust. Avoid contact with eyes. Wash face, hands and

exposed skin thoroughly after handling. Remove and wash contaminated clothes separately before re-use. Do not eat, drink or smoke when using this

product.

OTHER EQUIPMENT: Make safety shower, eyewash stations, and hand washing equipment

available in the work area.

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### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

	PRODUCT CRITERIA	
APPEARANCE - COLOR:	Tan	
PHYSICAL STATE:	Blend of crystals and powders	
ODOR:	None	
ODOR THRESHOLD	No data available	
PH	4.4 – when mixed with water	
MELTING POINT/FREEZING POINT:	No data available	
INITIAL BOILING POINT AND BOILING RANGE:	No data available	
FLASH POINT:	No data available	
EVAPORATION RATE:	No data available	
FLAMMABILITY (Solid, gas)	Not flammable	
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured	
VAPOR PRESSURE	No data available	
VAPOR DENSITY (AIR = 1)	No data available	
RELATIVE DENSITY (@25 °C):	1.0-1.2 g/ml (tapped 1.14 g/ml)	
SOLUBILITY(IES)	Soluble in water	
OXIDIZING PROPERTIES	Not an oxidizer	
PARTITION COEFFICIENT: n-octanol/water	No data available	
AUTO IGNITION TEMPERATURE	No data available	
DECOMPOSITION TEMPERATURE	No data available	
VISCOSITY	No data available	

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity: Reacts with strong acids and strong oxidizers.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Will not occur under normal temperatures and pressures.

Conditions to Avoid: High temperatures, high pressure, increasing the pH, and incompatible materials.

Incompatibility (Materials to avoid): Oxidizing agents, metals, lead, calcium, strontium salts, borax, hydroxides, silver

proteins, tannins, ethoxy ethyl alcohols, arsenates, phosphates, tartrates, barium,

and powdered metals.

Hazardous Decomposition Products: Decomposition products include NOx, SOx, metals oxides and NH3.

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### **SECTION 11: TOXICOLOGICAL INFORMATION**

SHS Required Criteria	Toxicity Criteria	<b>Toxicity Information</b>	Comments	Chemical Constituent
Acute Toxicity	LD50(Oral/Rat):	5 g/kg	Category 4	Iron Glycinate
Skin Corrosion/Irritation	Causes skin irritation	·	Category 2	Iron Glycinate
Serious Eye Damage / Eye Irritation	Causes eye irritation		Category 2	Iron Glycinate
	Causes serious eye damage		Category 1*	Zinc Glycinate
Respiratory or Skin Sensitization	damage	Data not available		
Germ Cell Mutagenicity	No Data available	·		
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
Reproductive Toxicity	No data available			
STOT Single Exposure	No data available			
STOT – Repeated Exposure	No data available			
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Toxicity

## **SECTION 12: ECOLOGICAL INFORMATION**

Chemical Constituent

Toxicity:	LC50 Fish (Lepomis macrochirus) 41mg/l, 96hr.	Iron Glycinate
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

**Contaminated packaging:** Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or storm water drainage system.

<sup>\*</sup> Category 1 is based on component information. Mixture is classified as Category 2B.



# **GRAVITY® S MicroSurge**

### **SECTION 14: TRANSPORT INFORMATION**

**DOT TRANSPORT:** Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

RAIL TRANSPORT: Not Regulated

**SEA TRANSPORT:** IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

### **SECTION 15: REGULATORY INFORMATION**

#### TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

# SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

#### **CALIFORNIA PROPOSITION 65:**

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

#### STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts Not listed New Jersey Not listed Pennsylvania Not listed

#### **SECTION 16: OTHER INFORMATION**

Revision Date: January 24, 2023

Revision Number:

Supersedes Document Dated: April 16, 2019

Sections Revised: 1, 16

Information Sources: RTECS, ECHA, REACH, OSHA 29CFR

1910.1200

#### Disclaimer

The information provided in this 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.