

# SAFETY DATA SHEET

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

**Product identifier**

**Product Name**

Revive Granules

**Other means of identification**

**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**

**Supplier Name**

U.S. General Corp dba Revive, Inc.

**Supplier Address**

6501 W. 91<sup>st</sup> Ave  
Westminster  
Colorado  
80031  
US

**Supplier Phone Number**

Phone:303-426-0373  
Fax:303-426-0442  
Contact Phone: 888-973-8483

**Supplier Email**

dmiller@revive.com

**Emergency telephone number**

303-809-6234

Supplier Email	supplier@revive.com
Emergency telephone number	303-809-6234

**2. HAZARDS IDENTIFICATION**

<b>Classification</b>	
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This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
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**GHS Label elements, including precautionary statements**

**Emergency Overview**

<b>Signal word</b> Warning
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<b>Hazard Statements</b> Harmful if swallowed
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<b>Appearance</b> Dark brown	<b>Physical State</b> Granular Solid	<b>Odor</b> Organic
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**Precautionary Statements - Prevention**  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

**Ingestion**  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Storage**

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

91.86% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

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

**Interactions with Other Chemicals**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%	Trade Secret
Supplier Trade Secret	Proprietary	1 - 5	*
Ferrous sulfate	7720-78-7	1 - 5	*
Ammonium sulfate	7783-20-2	1 - 5	*

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

**4. FIRST AID MEASURES****First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact**

Wash with soap and water.

**Inhalation**

Remove to fresh air.

**Ingestion**

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and**

No information available

**Most Important Symptoms and Effects**

No information available.

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

**Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

No information available.

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact**

No.

**Sensitivity to Static Discharge**

No.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions**

Avoid contact with eyes.

**Environmental Precautions**

**Environmental Precautions**

Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Do not ingest. If swallowed then seek immediate medical assistance.
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### Conditions for safe storage, including any incompatibilities

<b>Storage</b>	Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.
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<b>Incompatible Products</b>	None known based on information supplied.
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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ferrous sulfate 7720-78-7	TWA: 1 mg/m <sup>3</sup> Fe	(vacated) TWA: 1 mg/m <sup>3</sup> Fe	TWA: 1 mg/m <sup>3</sup> Fe

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health*

<b>Other Exposure Guidelines</b>	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters
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### Appropriate engineering controls

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
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### Individual protection measures, such as personal protective equipment

<b>Eye/Face Protection</b>	No special protective equipment required.
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<b>Skin and Body Protection</b>	No special protective equipment required.
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<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
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<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Physical and Chemical Properties

**Physical State** Granular Solid

**Appearance** Dark brown

**Odor** Organic

**Color** No information available

**Odor Threshold** No information available

Property	Values
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Remarks/ Method
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pH	No data available
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None known
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Melting / freezing point	No data available
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None known
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Boiling point / boiling range	No data available
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None known
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Flash Point	No data available
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None known
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Evaporation Rate	No data available
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None known
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Flammability (solid, gas)	No data available
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None known
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Flammability Limit in Air	
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Upper flammability limit	No data available
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Lower flammability limit	No data available
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Vapor pressure	No data available
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None known
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Vapor density	No data available
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None known
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Specific Gravity	No data available
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None known
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Water Solubility	Decomposes slowly on exposure to water
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None known
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Solubility in other solvents	No data available
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None known
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Partition coefficient: n-octanol/water	No data available
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None known
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Autoignition temperature	No data available
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None known
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Decomposition temperature	No data available
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None known
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Kinematic viscosity	No data available
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None known
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Dynamic viscosity	No data available
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None known
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<b>Dynamic viscosity</b>	No data available	None known
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<b>Explosive properties</b>	No data available
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<b>Oxidizing Properties</b>	No data available
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**Other Information**

<b>Softening Point</b>	No data available
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<b>VOC Content (%)</b>	No data available
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<b>Particle Size</b>	No data available
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<b>Particle Size Distribution</b>	
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**10. STABILITY AND REACTIVITY**

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**Reactivity.**

No data available.
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**Chemical stability.**  
Stable under recommended storage conditions.

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**Possibility of Hazardous Reactions**  
None under normal processing.

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**Hazardous Polymerization**  
Hazardous polymerization does not occur.

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**Conditions to avoid**  
None known based on information supplied.

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**Incompatible materials**  
None known based on information supplied.

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**Hazardous Decomposition Products**  
Carbon oxides.

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**11. TOXICOLOGICAL INFORMATION**

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**Information on likely routes of exposure**

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**Product Information**

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<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
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<b>Eye Contact</b>	Specific test data for the substance or mixture is not available.
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<b>Skin Contact</b>	Specific test data for the substance or mixture is not available.
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<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).
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**Component Information**

		(based on components).	
<b>Component Information</b>			
<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Ferrous sulfate 7720-78-7	= 237 mg/kg ( Rat )	-	-
Ammonium sulfate 7783-20-2	= 2000 mg/kg ( Rat )	-	-
<b>Information on toxicological effects</b>			
<b>Symptoms</b>		No information available.	
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>			
<b>Sensitization</b>		No information available.	
<b>Mutagenic Effects</b>		No information available.	
<b>Carcinogenicity</b>		Contains no ingredient listed as a carcinogen.	
<b>Reproductive Toxicity</b>		No information available.	
<b>STOT - single exposure</b>		No information available.	
<b>STOT - repeated exposure</b>		No information available.	
<b>Chronic Toxicity</b>		No known effect based on information supplied. May cause adverse liver effects.	
<b>Target Organ Effects</b>		Eyes. Gastrointestinal tract (GI). Liver. Respiratory system. Skin.	
<b>Aspiration Hazard</b>		No information available.	

**Numerical measures of toxicity Product Information**

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

**ATEmix (oral)**  
613.00 mg/kg

<b>12. ECOLOGICAL INFORMATION</b>				
<b>Ecotoxicity</b>				
Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects.				
<b>Chemical Name</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Microorganisms</b>	<b>Daphnia Magna (Water Flea)</b>
Ferrous sulfate 7720-78-7		96h LC50: = 0.56 mg/L (Cyprinus carpio) 96h LC50: = 925 mg/L (Poecilia reticulata)		48h EC50: 6.15 - 9.26 mg/L 48h EC50: = 152 mg/L
Ammonium sulfate 7783-20-2		96h LC50: = 250 mg/L (Brachydanio rerio) 96h LC50: = 480 mg/L		48h LC50: = 14 mg/L 24h EC50: = 423 mg/L



Ammonium sulfate 7783-20-2		96h LC50: = 250 mg/L (Brachydanio rerio) 96h LC50: = 480 mg/L (Brachydanio rerio) 96h LC50: = 18 mg/L (Cyprinus carpio) 96h LC50: = 420 mg/L (Brachydanio rerio) 96h LC50: 32.2 - 41.9 mg/L (Oncorhynchus mykiss) 96h LC50: 5.2 - 8.2 mg/L (Oncorhynchus mykiss) 96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 123 - 128 mg/L (Poecilia reticulata) 96h LC50: = 126 mg/L (Poecilia reticulata) 96h LC50: 460 - 1000 mg/L (Leuciscus idus)	48h LC50: = 14 mg/L 24h EC50: = 423 mg/L
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**Persistence and Degradability**

No information available.

**Bioaccumulation**

Chemical Name	Log Pow
Ammonium sulfate 7783-20-2	-5.1

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT** NOT REGULATED

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

**15. REGULATORY INFORMATION**

<b>International Inventories</b>	
TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**  
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Ammonium sulfate - 7783-20-2	7783-20-2	1 - 5	1.0

<b>SARA 311/312 Hazard Categories</b>	
Acute Health Hazard	Yes
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	CWA - Priority Pollutants	CWA - Hazardous Substances
Ferrous sulfate 7720-78-7	1000 lb			X

**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	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ferrous sulfate 7720-78-7	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**US State Regulations**

**California Proposition 65**  
 This product does not contain any Proposition 65 chemicals.

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

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ferrous sulfate 7720-78-7	X	X	X	X	
Ammonium sulfate 7783-20-2		X	X	X	

**International Regulations**

**Mexico**

**National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Ferrous sulfate 7720-78-7 ( 1 - 5 )		Mexico: TWA 1 mg/m <sup>3</sup> Mexico: STEL 2 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Revision Date</b>	25-Nov-2014
<b>Revision Note</b>	No information available

**Disclaimer**

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**End of Safety Data Sheet**



