

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

--	--

<u>Product identifier</u>	
----------------------------------	--

--	--

Product Name	Revive Liquid
---------------------	---------------

--	--

<u>Other means of identification</u>	
---	--

--	--

Synonyms	None
-----------------	------

--	--

--	--

<u>Recommended use of the chemical and restrictions on use</u>	
---	--

--	--

Recommended Use	Soil Conditioner (no VOC or Pesticide)
------------------------	--

--	--

Uses advised against	No information available
-----------------------------	--------------------------

--	--

<u>Details of the supplier of the safety data sheet</u>	
--	--

--	--

Supplier Name	U.S. General Corp dba Revive, Inc
----------------------	-----------------------------------

Supplier Address	6501 W. 91 st Ave Westminster Colorado 80031 US
-------------------------	--

Supplier Phone Number	Phone:303-426-0373 Fax:303-426-0442 Contact Phone: 303-426-0373
------------------------------	---

Supplier Email	dmiller@revive.com
-----------------------	--------------------

<u>Emergency telephone number</u>	303-809-6234
--	--------------

--	--

--	--

2. HAZARDS IDENTIFICATION

<u>Classification</u>	
------------------------------	--

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

--	--

<u>GHS Label elements, including precautionary statements</u>	
--	--

--	--

Emergency Overview

--	--	--

--	--	--

The product contains no substances which at their given concentration, are considered to be hazardous to health		

--	--	--

Appearance	Black	

	Physical State	Liquid

	Odor	Earthy

--	--	--

--	--	--

Precautionary Statements - Prevention
Obtain special instructions before use

Precautionary Statements - Response
None

Precautionary Statements - Storage
None

Precautionary Statements - Disposal
None

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
4.28% of the mixture consists of ingredient(s) of unknown toxicity

Other information

May be harmful if swallowed
Causes mild skin irritation
May cause slight eye irritation
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

--	--	--	--

--	--	--	--

--	--	--	--

Chemical Name	CAS No.	Weight-%	Trade Secret
----------------------	----------------	-----------------	---------------------

Supplier Trade Secret	Proprietary	7 - 13	*
-----------------------	-------------	--------	---

Ferrous sulfate	7720-78-7	1 - 5	*
-----------------	-----------	-------	---

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

4. FIRST AID MEASURES

First aid measures

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

Skin Contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

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

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

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.	
--	-----	--

--	--	--

<u>Protective equipment and precautions for firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
---	--	--

--	--	--

6. ACCIDENTAL RELEASE MEASURES		
---------------------------------------	--	--

--	--	--

<u>Personal precautions, protective equipment and emergency procedures</u>		
---	--	--

--	--	--

Personal Precautions	Avoid contact with eyes.	
-----------------------------	--------------------------	--

--	--	--

<u>Environmental Precautions</u>		
---	--	--

--	--	--

Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.	
----------------------------------	--	--

--	--	--

<u>Methods and material for containment and cleaning up</u>		
--	--	--

--	--

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

--	--

Methods for cleaning up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
--------------------------------	---

--	--

7. HANDLING AND STORAGE

--	--

<u>Precautions for safe handling</u>

--	--

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.
-----------------	---

--	--

<u>Conditions for safe storage, including any incompatibilities</u>
--

--	--

Storage	Keep container tightly closed.
----------------	--------------------------------

--	--

Incompatible Products	None known based on information supplied.
------------------------------	---

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Control parameters</u>			
Exposure Guidelines			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ferrous sulfate 7720-78-7	TWA: 1 mg/m ³ Fe	(vacated) TWA: 1 mg/m ³ Fe	TWA: 1 mg/m ³ Fe
<i>ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health</i>			
Other Exposure Guidelines	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		
<u>Appropriate engineering controls</u>			
Engineering Measures	Showers Eyewash stations Ventilation systems		
<u>Individual protection measures, such as personal protective equipment</u>			
Eye/Face Protection	No special protective equipment required.		
Skin and Body Protection	No special protective equipment required.		
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.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Physical and Chemical Properties</u>			
Physical State	Liquid		
Appearance	Black		
		Odor	Earthy
Color	No information available		

	Odor Threshold	No information available
--	-----------------------	--------------------------

<u>Property.</u>	<u>Values</u>
------------------	---------------

	Remarks/ Method
--	------------------------

pH	5
-----------	---

	None known
--	------------

Melting / freezing point	No data available
---------------------------------	-------------------

	None known
--	------------

Boiling point / boiling range	100 °C / 212 °F
--------------------------------------	-----------------

	None known
--	------------

Flash Point	5001 C / 9034 F
--------------------	-----------------

	None known
--	------------

Evaporation Rate	No data available
-------------------------	-------------------

	None known
--	------------

--	--

Flammability (solid, gas)	No data available
----------------------------------	-------------------

	None known
--	------------

Flammability Limit in Air		
----------------------------------	--	--

--	--

Upper flammability limit	No data available
---------------------------------	-------------------

--	--	--

Lower flammability limit	No data available
---------------------------------	-------------------

--	--	--

Vapor pressure	No data available
-----------------------	-------------------

	None known
--	------------

Vapor density	No data available
----------------------	-------------------

	None known
--	------------

Specific Gravity	No data available
-------------------------	-------------------

	None known
--	------------

Water Solubility	Soluble in water

None known

Solubility in other solvents	No data available

None known

Partition coefficient: n-octanol/ water	No data available

None known

Autoignition temperature	No data available

None known

Decomposition temperature	No data available

None known

Kinematic viscosity	No data available

None known

Dynamic viscosity	1.07

	None known
--	------------

Explosive properties	No data available
Oxidizing Properties	No data available

<u>Other Information</u>	
Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

--	--

<u>Reactivity.</u>

No data available.

--

--	--

<u>Chemical stability</u> Stable under recommended storage conditions.
--

--

<u>Possibility of Hazardous Reactions</u> None under normal processing.

--

<u>Hazardous Polymerization</u> Hazardous polymerization does not occur.
--

--

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

--	--

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

--	--

Hazardous Decomposition Products Carbon oxides.	
---	--

--	--

--	--

11. TOXICOLOGICAL INFORMATION

<u>Information on likely routes of exposure</u>
--

Product Information	Product does not present an acute toxicity hazard based on known or supplied 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.
------------------	---

Component Information	
------------------------------	--

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ferrous sulfate 7720-78-7	= 237 mg/kg (Rat)	-	-

<u>Information on toxicological effects</u>
--

Symptoms	No information available.
-----------------	---------------------------

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>
--

Sensitization	No information available.
----------------------	---------------------------

Mutagenic Effects	No information available.
--------------------------	---------------------------

Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	No known effect based on information supplied. May cause adverse liver effects.
Target Organ Effects	Eyes. Gastrointestinal tract (GI). Liver. Respiratory system. Skin.
Aspiration Hazard	No information available.
<u>Numerical measures of toxicity</u> Product Information	
The following values are calculated based on chapter 3.1 of the GHS document	
ATEmix (oral) 4,195.00 mg/kg	

12. ECOLOGICAL INFORMATION

--	--

<u>Ecotoxicity</u>	
---------------------------	--

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

--	--

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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

--	--

<u>Persistence and Degradability</u> No information available.	
--	--

--	--

Bioaccumulation	No information available
------------------------	--------------------------

--	--

--	--

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.
-------------------------------	--

--	--

--	--

--	--	--

California Hazardous Waste Codes	135	
---	-----	--

--	--	--

--	--	--

14. TRANSPORT INFORMATION		
----------------------------------	--	--

DOT	NOT REGULATED	
Proper Shipping Name	NON REGULATED	
Hazard Class	N/A	
TDG	Not regulated	
MEX	Not regulated	
ICAO	Not regulated	
IATA	Not regulated	
Proper Shipping Name	NON REGULATED	
Hazard Class	N/A	
IMDG/IMO	Not regulated	
Hazard Class	N/A	
RID	Not regulated	
ADR	Not regulated	
ADN	Not regulated	

15. REGULATORY INFORMATION		
-----------------------------------	--	--

International Inventories		
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 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	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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ferrous sulfate 7720-78-7	X	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 ³ Mexico: STEL 2 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

NFPA

Health Hazards 1

Flammability 0

Instability 0

	Physical and Chemical Hazards	-
--	--------------------------------------	---

HMIS

	Health Hazards	1
--	-----------------------	---

	Flammability	0
--	---------------------	---

	Physical Hazard	0
--	------------------------	---

	Personal Protection	X
--	----------------------------	---

Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
Revision Date	06-Nov-2014
Revision Note	No information available

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

End of Safety Data Sheet