Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 12/06/2017 Reviewed on 12/06/2017

1 Identification

· **Product Identifier**

· **Trade name: NutriFusion 7-7-7 Plus 1% Sulfur with Micronutrients**
· **Relevant identified uses of the substance or mixture and uses advised against:**
· **Product Description**
A blend of a plant nutrients and other ingredients to be used as a plant nutrient source and can also aid in reducing water and soil alkalinity and keep drip lines clean.

· **Details of the Supplier of the Safety Data Sheet:**
· **Manufacturer/Supplier:**
Solutions 4Earth
215 Industrial Park Rd.
· Grace, ID 83241
· TEL: 208-425-3100
· **Emergency telephone number:**
Chemtrec – 24 hour within US and Canada 1-800-424-9300
24 hour international 1-703-527-3887
208-425-3100

2 Hazard(s) Identification

· **Classification of the substance or mixture:**

GHS08 Health hazard

Repr. 1 H360 May damage fertility or the unborn child.

GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

· **Label elements:**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms:**

GHS05 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**
Phosphoric acid
sulfuric acid
· **Hazard statements:**
H314 Causes severe skin burns and eye damage.
H360 May damage fertility or the unborn child.

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· ***Precautionary statements:***

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Unknown acute toxicity:***
This value refers to knowledge of known, established toxicological or ecotoxicological values.
· ***Classification system:*** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
· ***NFPA ratings (scale 0 - 4)***

Health = 2
Fire = 0
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***

Health = 2
Fire = 0
Physical Hazard = 0

· ***Hazard(s) not otherwise classified (HNOC):*** None known

3 Composition/Information on Ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** Mixture of substances listed below with non-hazardous additions.

· ***Dangerous Components:***

CAS: 57-13-6 RTECS: YR 6250000	Urea		15-35%
CAS: 7664-38-2 RTECS: TB 6300000	Phosphoric acid	Met. Corr.1, H290; Skin Corr. 1B, H314	5-10%
	Trade Secret	Combustible Dust	2-12%
CAS: 7664-93-9	sulfuric acid	Skin Corr. 1A, H314	2-12%
	Trade Secret	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤2.5%
CAS: 10043-35-3 RTECS: ED 4550000	Boric Acid	Repr. 1B, H360	≤2.5%

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· ***Additional information:***
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· ***Description of first aid measures:***
· ***General information:*** Immediately remove any clothing soiled by the product.
· ***After inhalation:***
Remove to fresh air.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Immediate medical treatment is necessary. Failure to treat burns can prevent wounds from healing.
· ***After eye contact:***
Rinse opened eye for several minutes under running water. Then consult a doctor.
If easy to do so, remove contact lenses if worn.
· ***After swallowing:***
Do not induce vomiting without medical advice.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
· ***Information for doctor:*** Treat symptomatically. The effects might be delayed.
· ***Most important symptoms and effects, both acute and delayed:*** No further relevant information available.
· ***Indication of any immediate medical attention and special treatment needed:***
No further relevant information available.

5 Fire-Fighting Measures

· ***Extinguishing media:***
· ***Suitable extinguishing agents:***
CO2, sand, dry chemical, water mist or alcohol resistant foam.
Use fire fighting measures that suit the environment.
· ***For safety reasons unsuitable extinguishing agents:*** Water with full jet
· ***Special hazards arising from the substance or mixture:*** No further relevant information available.
· ***Advice for firefighters:*** May form combustible dust concentrations in air.
· ***Protective equipment:***
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures:***
Wear protective equipment. Keep unprotected persons away.
· ***Environmental precautions:*** Do not allow to enter sewers/surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
· ***Reference to other sections:***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
57-13-6	Urea	30 mg/m³
7664-38-2	Phosphoric acid	3 mg/m³
7664-93-9	sulfuric acid	0.20 mg/m³
21265-50-9	ammonium[[N,N'-ethylenebis[N-(carboxymethyl)glycinato]] (4-)-N,N',O,O',ON,ON'] ferrate(1-)	97 mg/m³
10043-35-3	Boric Acid	6 mg/m³

· **PAC-2:**		
57-13-6	Urea	280 mg/m³
7664-38-2	Phosphoric acid	30 mg/m³
7664-93-9	sulfuric acid	8.7 mg/m³
21265-50-9	ammonium[[N,N'-ethylenebis[N-(carboxymethyl)glycinato]] (4-)-N,N',O,O',ON,ON'] ferrate(1-)	1,100 mg/m³
10043-35-3	Boric Acid	23 mg/m³

· **PAC-3:**		
57-13-6	Urea	1,700 mg/m³
7664-38-2	Phosphoric acid	150 mg/m³
7664-93-9	sulfuric acid	160 mg/m³
21265-50-9	ammonium[[N,N'-ethylenebis[N-(carboxymethyl)glycinato]] (4-)-N,N',O,O',ON,ON'] ferrate(1-)	6,300 mg/m³
10043-35-3	Boric Acid	830 mg/m³

7 Handling and Storage

· **Handling**

· **Precautions for safe handling:**

Avoid creating and breathing dust/fume/gas/mist/vapors/spray.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities:**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters:**

· **Components with occupational exposure limits:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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At this time, the other constituents have no known exposure limits.

57-13-6 Urea	
WEEL	Long-term value: 10 mg/m³
7664-38-2 Phosphoric acid	
PEL	Long-term value: 1 mg/m³
REL	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³
TLV	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³
7664-93-9 sulfuric acid	
PEL	Long-term value: 1 mg/m³
REL	Long-term value: 1 mg/m³
TLV	Long-term value: 0.2* mg/m³ *as thoracic fraction
10043-35-3 Boric Acid	
TLV	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction

· ***Additional information:*** The lists that were valid during the creation of this SDS were used as basis.

· ***Exposure controls:***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· ***Breathing equipment:***

NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· ***Protection of hands:***

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Select glove material based on penetration times, rates of diffusion and degradation.
· ***Material of gloves:***
Chemical resistant
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
· ***Penetration time of glove material:*** Not applicable.

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Trade name: NutriFusion 7-7-7 Plus 1% Sulfur with Micronutrients

· **Eye protection:**

Tightly sealed goggles

· **Body protection:**

Protective work clothing

*
9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**
Form: Liquid
Color: Brown
· **Odor:** Characterastic
· **Odor threshold:** Not determined.

· **pH-value @ 20 °C (68 °F):** 1.4-1.6

· **Change in condition**
Melting point/Melting range: Not determined.
Boiling point/Boiling range: ≥100 °C (≥212 °F)

· **Flash point:** None

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**
Lower: Not determined.
Upper: Not determined.

· **Vapor pressure @ 20 °C (68 °F):** ≤23 hPa (≤17.3 mm Hg)

· **Density @ 20 °C (68 °F):** 10.45 lbs/gal
· **Relative density:** Not determined.
· **Vapor density:** Not determined.
· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with:**
Water: Partially soluble in water.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**
Dynamic: Not determined.

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Kinematic: Not determined.
· ***Other information:*** No further relevant information available.

10 Stability and Reactivity

· ***Reactivity:*** No further relevant information available.
· ***Chemical stability:*** Stable under normal conditions.
· ***Thermal decomposition / conditions to be avoided:*** No decomposition if used according to specifications.
· ***Possibility of hazardous reactions:***
Do not mix with strong bases as reaction will occur. Do not mix with liquids containing sulfates as precipitation of calcium and sulfate will occur.
· ***Conditions to avoid:*** Contact with moisture, acids and bases.
· ***Incompatible materials:***
Do not mix with strong bases as reaction will occur. Do not mix with liquids containing sulfates as precipitation of calcium and sulfate will occur.
· ***Hazardous decomposition products:*** No dangerous decomposition products known.

11 Toxicological Information

· ***Information on toxicological effects:***
· ***Acute toxicity:***

· ***LD/LC50 values that are relevant for classification:***		
57-13-6 Urea		
Oral	LD50	8,471 mg/kg (Rat)
7664-38-2 Phosphoric acid		
Oral	LD50	>5,000 mg/kg (Rat) (OECD Test Guideline 423)
Dermal	LD50	2,740 mg/kg (Rabbit) Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Excitement.
Trade Secret		
Oral	LD50	5,040 mg/kg (Mouse)
		5,400 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
	LC50/48 hrs	440 mg/l (Daphnia)
10043-35-3 Boric Acid		
Oral	LD50	2,660 mg/kg (Rat)

· ***Primary irritant effect:***
· ***On the skin:*** Strong caustic effect on skin and mucous membranes.
· ***On the eye:***
Strong irritant with the danger of severe eye injury.
Corrosive effect.
Causes serious eye irritation.
· ***Additional toxicological information:***
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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· ***Carcinogenic categories:***
· ***IARC (International Agency for Research on Cancer):***
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

7664-93-9	sulfuric acid	3

· ***NTP (National Toxicology Program):***
None of the ingredients are listed.

· ***OSHA-Ca (Occupational Safety & Health Administration):***
None of the ingredients are listed.

12 Ecological Information

· ***Toxicity:***

· ***Aquatic toxicity:***

57-13-6 Urea	
EC50	>10,000 mg/l (Daphnia)
7664-38-2 Phosphoric acid	
EC50	4.6 mg/l (Daphnia)
7664-93-9 sulfuric acid	
EC50	22 mg/l (Daphnia)
Trade Secret	
EC50	1,534 mg/l (Daphnia)

· ***Persistence and degradability:*** No further relevant information available.
· ***Behavior in environmental systems:***
· ***Bioaccumulative potential:*** No further relevant information available.
· ***Mobility in soil:*** No further relevant information available.
· ***Additional ecological information:***
· ***General notes:***
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· ***Results of PBT and vPvB assessment:***
· ***PBT:*** Not applicable.
· ***vPvB:*** Not applicable.
· ***Other adverse effects:*** No further relevant information available.

13 Disposal Considerations

· ***Waste treatment methods:***
· ***Recommendation:***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Observe all federal, state and local environmental regulations when disposing of this material.

· ***Uncleaned packagings***
· ***Recommendation:*** Disposal must be made according to official regulations.

14 Transport Information

· ***UN-Number:***
· ***DOT, ADR/ADN, IMDG, IATA*** UN3264
· ***UN proper shipping name:***
· ***DOT*** Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid, Phosphoric acid solution)
· ***ADR/ADN*** UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid, Phosphoric acid solution)
· ***IMDG, IATA*** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION)
· ***Transport hazard class(es):***

· ***DOT***

· ***Class:*** 8 Corrosive substances
· ***Label:*** 8

· ***ADR/ADN***

· ***Class:*** 8 (C1) Corrosive substances
· ***Label:*** 8

· ***IMDG, IATA***

· ***Class:*** 8 Corrosive substances
· ***Label:*** 8
· ***Packing group:***
· ***DOT, ADR/ADN, IMDG, IATA*** II
· ***Environmental hazards:*** Not applicable.
· ***Special precautions for user:*** Warning: Corrosive substances
· ***Danger code (Kemler):*** 80
· ***EMS Number:*** F-A,S-B
· ***Segregation groups:*** Acids
· ***Stowage Category*** A
· ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:*** Not applicable.

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· ***Transport/Additional information:***

· ***DOT***
· ***Quantity limitations:*** On passenger aircraft/rail: 1 L
On cargo aircraft only: 30 L

· ***ADR/ADN***
· ***Excepted quantities (EQ):*** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· ***IMDG***
· ***Limited quantities (LQ):*** 1L
· ***Excepted quantities (EQ):*** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· ***UN "Model Regulation":*** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULFURIC ACID, PHOSPHORIC ACID SOLUTION), 8, II

15 Regulatory Information

· ***Safety, health and environmental regulations/legislation specific for the substance or mixture:***
· ***SARA (Superfund Amendments and Reauthorization):***

· ***Section 355 (extremely hazardous substances):***

7664-93-9	sulfuric acid

· ***Section 313 (Specific toxic chemical listings):***

7664-38-2	Phosphoric acid
7664-93-9	sulfuric acid

· ***TSCA (Toxic Substances Control Act):***
All ingredients are listed or exempt from listing.

· ***California Proposition 65:***

· ***Chemicals known to cause cancer:***
None of the ingredients are listed.

· ***Chemicals known to cause reproductive toxicity for females:***
None of the ingredients are listed.

· ***Chemicals known to cause reproductive toxicity for males:***
None of the ingredients are listed.

· ***Chemicals known to cause developmental toxicity:***
None of the ingredients are listed.

· ***New Jersey Right-to-Know List:***

7664-38-2	Phosphoric acid
7664-93-9	sulfuric acid

· ***New Jersey Special Hazardous Substance List:***

7664-38-2	Phosphoric acid	CO
7664-93-9	sulfuric acid	CA, CO, R2

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· **Pennsylvania Right-to-Know List:**	
7664-38-2	Phosphoric acid
7664-93-9	sulfuric acid

· **Pennsylvania Special Hazardous Substance List:**		
7664-38-2	Phosphoric acid	E
7664-93-9	sulfuric acid	E

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**		
57-13-6	Urea	II
10043-35-3	Boric Acid	I (oral)

· **TLV (Threshold Limit Value established by ACGIH):**		
	Trade Secret	A4
7664-93-9	sulfuric acid	A2
10043-35-3	Boric Acid	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**
None of the ingredients are listed.

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms:**

GHS05 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**
Phosphoric acid
sulfuric acid
· **Hazard statements:**
H314 Causes severe skin burns and eye damage.
H360 May damage fertility or the unborn child.
· **Precautionary statements:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

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P310	Immediately call a poison center/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***National regulations:***

None of the ingredients are listed.

· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· ***Date of preparation / last revision:*** 12/06/2017 / 7

· ***Abbreviations and acronyms:***

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Repr. 1: Reproductive toxicity – Category 1
Repr. 1B: Reproductive toxicity – Category 1B

· **** Data compared to the previous version altered.***