1. Identification

Product identifier: SmartBlend™ Phos-pHuric™
Common Name: Aqueous solution
Recommended use: Fertilizer
Synonym(s): 7.5-26-0 8S
7-27-0 8S
8-26-0 8S

Company: Fertizona Casa Grande LLC
2850 South Peart Road
Casa Grande, Arizona 85193-9024
520-836-7477
www.fertizona.com

Emergency Number (24 Hour) Infotrac- 800-535-5053

2. Hazards Identification

OSHA/HCS status: This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification: Metal Corrosion – Category 1
Acute Toxicity (oral) – Category 3
Acute Toxicity (dermal) – Category 4 & 5
Skin Corrosion – Category 1A
Serious Eye Damage/Irritation – Category 1

Signal Word: Danger

Hazard Statements: May be corrosive to metals. May be harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May be harmful if inhaled. May cause respiratory irritation.

Symbol(s):

Precautionary Statements:

Prevention: Wear protective gloves and eye protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Storage: Store locked up. Store in a well-ventilatged place. Keep container tightly closed. Store in corrosive resistant/container with a resistant inner liner.

Disposal: Dispose of contents/container in accordance to local laws.

Hazards Not Otherwise Classified: None known

Potential Health Effects

Routes of Exposure: Eye contact, skin, contact, inhalation. Avoid breathing spray mist.
Eye: Causes serious eye damage.
Skin: Causes severe skin burns.
Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if swallowed.
Target Organs: Skin. Eyes. Inhalation.
Signs and symptoms: May be harmful if absorbed through skin.
Potential Environmental Effects: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

3. Composition/Information on Ingredients

Substance/Mixture Mixture

Chemical Ingredients:	CAS #:	%
Phosphoric acid	7664-38-2	>32-<40
Monocarbamide dihydrogen sulfate	21351-39-3	>45-<55
Proprietary blend		>12-<16

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

Remark: Aqueous solution

4. First Aid Measures

Work/Hygienic Practices: Keep out of reach of children. Avoid contact with eyes, skin, and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling. Do not eat, drink, or smoke while using this product.
General first-aid measures: Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

If in eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Call a poison control center or doctor immediately for treatment advice.
If on skin:	Wash with plenty of soap and water.
	Take off contaminated clothing and wash before reuse.
	Call a poison control center or doctor immediately for treatment advice.
If swallowed:	Rinse mouth with water.
	If material has been swallowed and the exposed person is conscious and able to swallow, give small quantities of water to drink.
	Do not induce vomiting unless told to do so by a poison control center or doctor.
	Call a poison control center or doctor immediately for treatment advice.
If inhaled:	Avoid inhalation of vapor, spray or mist.
	Remove to fresh air and keep comfortable for breathing.
	If person is not breathing, call 911 or an ambulance, and then give artificial respiration.
	Call a poison control center or doctor immediately for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
For emergencies, call a doctor or poison control center 1-800-222-1222.	

Most Important Symptoms and Effects, Acute and Delayed

Eyes: Causes serious eye damage.
Inhalation: May cause respiratory irritation.
Skin: Causes sever skin burns and eye damage. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach. Swallowing a small quantity of this material will result in serious health hazard.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician:	Treat symptomatically. Symptoms may be delayed. Probable mucosal damage may contraindicate the usage of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
Specific treatments:	No specific treatment

5. Fire Fighting Measures

Flash Point:	Non-flammable

Extinguishing Media

Suitable Extinguishing Media:	Dry chemical, carbon dioxide (CO_2), alcohol foam, foam, water spray or fog.
Unsuitable Extinguishing Media:	Do not us a heavy water stream/jet as this will spread the fire.

Specific Hazards arising from the Substance or Mixture

Reactivity:	Thermal decomposition generates corrosive vapors.
Specific Hazards During Firefighting:	During a fire, hazardous by-products can be released.

Special Protective Equipment and Precautions for Firefighters

Special Protective Actions for Firefighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Prevent firefighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.
Special Protective Equipment for Firefighters:	Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray or fog to keep fire-exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

For Non-Emergency Personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders:	Equip cleanup crew with proper protection.
Personal Precautions:	Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. Refer to Section 8 for personal protective equipment to be worn during containment and cleanup of a spill involving this product
Emergency Procedures:	Ventilate area.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Material for Containment and Clean Up

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Never return spills to original containers for re-use.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling and Storage

Precautions for Safe Handling

Additional Hazards when Processed: May be corrosive to metals.

Advice on Safe Handling: Put on appropriate personal protective equipment (see Section 8). Avoid inhalation of mists, vapors/spray and contact with eyes, skin and clothing. Do not breathe vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Avoid prolonged exposure. Handle and open container with care. Use care in handling/storage. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on General Occupational Hygiene: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Requirement s for Storage Areas and Containers: Store in accordance with local, applicable regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Product may become thicker at cold temperatures but effectiveness will not be affected. Warm product before use. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Do not reuse empty

	container. Use appropriate containment to avoid environmental contamination.
Incompatible Products:	Strong bases. Strong acids.
Incompatible Materials:	Sources of ignition. Direct sunlight.
Packaging Materials:	Store in corrosive resistant container with a resistant inner liner.

8. Exposure Controls and Personal Protection

Control Parameters

Occupational Exposure Limits:	No data available

Exposure Controls

Engineering Measures:	Provide adequate general and local exhaust ventilation. Provide eyewash station and safety shower.
Personal Protective Equipment:	Avoid all unnecessary exposure.
Hand Protection:	Wear protective gloves.
Eye Protection:	Chemical goggles or face shield.
Skin and Body Protection:	Wear suitable protective clothing. Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus socks.
Respiratory Protection:	Wear appropriate mask.
Other Information:	Do not eat, drink, or smoke during use.

9. Physical and Chemical Properties

Physical state: Liquid
Appearance: Dark
Odor: No discernible odor.
Odor threshold: N/Av
pH: N/Av
Melting point/Freezing point: N/Av)
Initial boiling point and boiling range: N/Av
% volatile by Weight: N/Av
Flash point: N/Ap
Evaporation rate: N/Av
Flammability: Non-flammable
Upper/lower flammability and explosive limits: N/Av
Vapor pressure: N/Av
Vapor density (air = 1): N/Av
Density: 13.38 lbs/gal
Specific gravity (water = 1): 1.604
Solubility(ies): Soluble
Partition coefficient (n-octanol/water): N/Av
Auto-ignition temperature: N/Ap
Decomposition temperature: N/Av
Viscosity: N/Av

N/Av = Not available
N/Ap = Not applicable
Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. Stability and Reactivity

Reactivity:	Thermal decomposition generates corrosive vapors.
Stability:	Stable under normal temperature conditions.
Possibility of Hazardous Reactions:	May be corrosive to 304 stainless steel. Slightly corrosive to 316 stainless steel. Will not polymerize.

Conditions to Avoid:	Direct sunlight. Extremely high or low temperatures. Avoid contact with hypochlorites, sulfides, or strong alkaline materials. Metals other than stainless steel. Avoid storage, piping, or handling systems made of copper, zinc, or their alloys (bronze, brass, galvanized metals, etc.).
Incompatible materials:	Hypochlorites, sulfides, strong acids, strong bases, or alkaline materials. Incompatible with nylon or nylon beads. Reacts violently with strong alkalies producting heat. Contact with many metals may result in sever corrosion attack of the metal and liberation of hydrogen gas.
Hazardous decomposition products:	High temperatures may liberate phosphorous oxides, fume, carbon monoxide, carbon dioxide. Thermal decomposition generates corrosive vapors.

11. Toxicological Information

Acute Toxicity

Conclusion/Summary:	Harmful if swallowed. Harmful in contact with skin

Irritation/Corrossion

Conclusion/Summary	
Skin:	Causes severe skin burns.
Eyes:	Causes serious eye damage.
Respiratory:	No data available.

Sensitization

Conclusion/Summary	
Skin:	No data available
Respiratory:	No data available

Mutagenicity

Conclusion/Summary:	No data available

Carcinogenicity Classification

Conclusion/Summary:	No data available

Reproductive Toxicity

Conclusion/Summary:	No data available.

Teratogenicity

Conclusion/Summary:	No data available.

Specific Target Organ Toxicity

Single Exposure:	No data available.
Repeated Exposure:	No data available.

Aspiration Hazard:	No data available.
Information on the likely routes of exposure:	No data available.

12. Ecological Information

Ecotoxicity:	A toxic hazard to fish. Avoid spills or release to watercourses. The product is not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

Product/Ingredient Name	Result	Species
No data available		

Conclusion/Summary: Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

Persistence/Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. Disposal Consideration

Do not contaminate water, food or feed by storage or disposal.

Methods of Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transportation Information

D.O.T. Shipping Description: RQ, UN1805, Phosphoric acid solution, 8, III

Other Shipping Information: Fertilizing Compounds (Manufactured), Liquid. NMFC Item 68140 Sub 6, LTL Class 70

15. Regulatory Information

Phosphoric acid (7664-38-2)

Not subject to reporting requirements of the US SARA Section 313

RQ (Reportable Quantity, section 304 of EPA's List of Lists) 5000 lb

SARA 311/312 Classification: Immediate (acute) health hazard

California Proposition 65: This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

16. Other Information

Fertilizer Company of Arizona, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or

fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

SDS Preparation Date: 10/24/2016
Revision Date: ----
Revision Reason: ----

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).