

**Supersedes: 02-01-2023**

**(Brand: GEA)**

**Section 1: Identification:**

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Material Identity:

Product Trade Name: Quantum SF  
Chemical Name: Not applicable, mixture.  
Recommended Use: High efficiency acid.  
Restrictions on use: For farm, commercial & industrial use only- not for human use.

Company:

GEA Farm Technologies, Inc.  
1385 N. Weber Road  
Romeoville, IL 60446 U.S.A.

Phone Numbers:

EMERGENCY: 1-877-741-1032 (24 hours a day, 7 days a week).  
Business: 800-323-1667

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**Section 2: Hazard(s) Identification:**

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GHS Classification: Category 1 Skin Corrosion/Irritation  
Category 1 Eye Damage/Irritation  
Category 1 Corrosive to Metals

GHS Label Elements:

Signal Word: DANGER Symbol:



Hazard Statements: Causes severe skin burns and eye damage. May be corrosive to metals.

Precautionary Statements:

Prevention: Keep only in original packaging. Do not breathe dusts or mists. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response: Absorb spillage to prevent material damage.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage: Store locked up. Store in corrosive resistant container with a resistant inner liner.

Disposal: Dispose of contents/container in accordance with local/regional/national regulations.

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**Section 3: Composition and Information on Ingredients:**

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Mixture:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (%)</u>
Sulfuric Acid	7664-93-9	20-30
Phosphoric acid	7722-84-1	1
Nitric acid	75-75-2	1

This is not intended to be a complete compositional disclosure. The criteria used for listing components in this section are as follows:

- Carcinogens are listed when present at 0.1% or greater.
- Components are listed when present at 1% or greater if they are considered hazardous by either OSHA(29CFR), EPA(40CFR), or DOT(49CFR) and if they maintain their chemical identity in this product and/or contribute to the hazards of this product.

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**Section 4: First-Aid Measures:**

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If in Eyes: Rinse cautiously with water for several minutes. Call a physician immediately. Remove contact lenses, if present and easy to do so. Continue rinsing.

If Swallowed: DO NOT induce vomiting. Rinse mouth promptly, then give small amount/glass of water (4-6 oz. child/ 10-12 oz. adult) (120-180 ml child/300-360 ml adult). Avoid alcohol. Call a physician immediately. DO NOT give anything by mouth to an unconscious or convulsing person.

If on Skin: Flush with large volumes of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation develops and persists, get medical attention. Wash contaminated clothing before reuse.

Inhalation of Vapors: If breathing difficulty or irritation occurs, remove to fresh air. If symptoms persist, get medical attention.

FOR ASSISTANCE WITH MEDICAL EMERGENCY (24 hours a day, 7 days a week),  
CALL: 1-877-741-1032

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**Section 5: Fire-Fighting Measures:**

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Suitable Extinguishing Media: Use media appropriate for surrounding material.

Unsuitable extinguishing media: None known.

Specific hazards arising from the hazardous product (e.g., hazardous combustion products): Sulfur oxides, not combustible, ambient fire may liberate hazardous vapors. Fire may cause evolution of:sulfur oxides

Special Fire Fighting Procedures: Where there is potential for exposure, wear impervious clothing and self-contained breathing apparatus.

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**Section 6: Accidental Release Measures:**

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Personal precautions, protective equipment and emergency procedures: Provide adequate ventilation. Keep people away from spill and upwind. Avoid inhalation, ingestion and contact with skin and eyes. When workers are exposed to concentrations above the exposure limits, they must wear NIOSH/MSHA approved respiratory protection equipment.

Spill Response: Keep spills out of sewers and open bodies of water.

Small spills: Vacuum or mop up then flush spill area with water.

Large spills: Dike and contain spill with inert material(sand, earth, etc.). Transfer the liquid and solid separately to containers for recovery or disposal.

Waste Disposal Method: Dispose of contents/container in accordance with local/regional/national regulations.

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**Section 7: Handling and Storage:**

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Handling: Use good industrial hygiene and safety practices.

Storage: Store in a cool dry area, away from direct sunlight and heat to avoid deterioration. If frozen, separation may occur. Thaw completely and mix thoroughly before use. Keep containers closed to prevent contamination of this product. No metal or light-weight metal containers.

NOTE: Since emptied containers may retain product residue, all hazard precautions given in this data sheet should be observed.

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**Section 8: Exposure Controls / Personal Protection:**

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These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety

procedures should be developed by the user(s) of this product. Consult with the manufacturer or supplier of your safety equipment in order to determine the specific type of equipment appropriate for your use/application of this product.

**Exposure Guidelines:**

Exposure limits for this product: None have been established.

Exposure limits for components of this product:

**Sulfuric acid:**

OSHA PEL: 1mg/m<sup>3</sup>, TWA

ACGIH TLV: 1mg/m<sup>3</sup>, TWA

ACGIH TLV: 0.2mg/m<sup>3</sup>, STEL

**Phosphoric acid:**

OSHA PEL: 1mg/m<sup>3</sup>, TWA

ACGIH TLV: 1mg/m<sup>3</sup>, TWA

ACGIH TLV: 3mg/m<sup>3</sup>, STEL

**Nitric acid:**

OSHA PEL: 2mg/m<sup>3</sup>, TWA

ACGIH TLV: 2mg/m<sup>3</sup>, TWA

ACGIH TLV: 4mg/m<sup>3</sup>, STEL

**Eye Protection:**

Safety glasses, goggles, or face shield based on anticipated exposure.

**Skin Protection:**

Gloves and protective clothing/equipment as necessary to avoid contact.

Both durability and resistance to permeation must be considered.

**Respiratory Protection:**

Use NIOSH/MSHA approved respiratory protection equipment based on actual or potential airborne concentrations. See previous paragraph in this section concerning exposure limits.

**Ventilation:**

Use local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

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**Section 9: Physical and Chemical Properties:**

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Appearance: Clear, dark pink liquid.

Odor: Not available.

Odor threshold: Not available.

pH: 2.

Melting point/freezing point: Not available.

Initial boiling point and boiling range: Not available.

Flash Point: Not available.

Evaporation Rate(butyl acetate=1): Not available.

Flammability: Not available.

Lower flammability: Not available.

Upper flammability: Not available

Vapor Pressure (mm Hg.): Not available.

Vapor Density: Not available.

Relative density at 25°C(water=1): 1.18.

Solubility: (in water): No data found.

Partition co-efficient- n-octanol/water: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity at 25°C: Not available.

Note: The above properties are typical values and are not to be construed as a guaranteed analysis for any specific lot or as specifications for the product.

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**Section 10: Stability and Reactivity:**

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Reactivity: A risk of explosion and/or of toxic gas formation exists with the following substances: Violent reactions possible with: water, alkali metals,

alkali compounds, ammonia, aldehydes, acetonitrile, alkaline earth metals, alkalines, acids, alkaline earth compounds, metals, metal alloys, oxides of phosphorus, phosphorus, hydrides, halogen-halogen compounds, oxyhalogenic compounds, permanganates, nitrates, carbides, combustible substances, organic solvent, acetylidene, nitriles, organic nitro compounds, anilines, peroxides, picrates, nitrides, lithium silicide, iron(III) compounds, bromates, chlorates, amines, perchlorates, hydrogen peroxide

Chemical Stability: Stable under normal conditions of use and storage.

Possibility of Hazardous Reactions: Polymerization will not occur.

Incompatible Materials: animal/vegetable tissues, contact with metals liberates hydrogen gas.

Hazardous Decomposition Products: Toxic oxides of nitrogen.

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**Section 11: Toxicological Information:**

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No studies have been conducted with this material.

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**Section 12: Ecological Information:**

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No studies have been conducted with this material.

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**Section 13: Disposal Considerations:**

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Dispose of in accordance with all applicable laws and regulations. Consult with appropriate regulatory authorities to determine exact classification of waste.

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**Section 14: Transport Information:**

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U.S. Department of Transportation (DOT) Regulations (49CFR) :

Hazard Class:

8, Corrosive.

Proper Shipping Name:

UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S, (Phosphoric Acid, Sulfuric Acid), 8, PGII.

Reportable Quantity (RQ) :

For component Sulfuric Acid, RQ is 1,000 pounds.

For component Phosphoric Acid, RQ is 5,000 pounds.

Canadian Transportation of Dangerous Goods (TDG) Regulations:

Identical to U.S. DOT above.

International Maritime Dangerous Goods (IMDG) Code:

Identical to U.S. DOT above.

International Air Transport Association (IATA) Dangerous Goods Regulations:

Identical to U.S. DOT above.

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**Section 15: Regulatory Information:**

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California Proposition 65:

There are no detectable components of this product which are listed substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Other: Contact manufacturer if you require further regulatory information.

obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet.

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**Section 16: Other Information:**

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Revision Date: **02-15-2024**

Reason(s) for revision: Change(s) in section(s): 14.

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**End of SDS.**

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