

MATERIAL SAFETY DATA SHEET

BRANDT® STERIC P®

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Issue Date: 4/14

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

BRANDT STERIC P

Common Name: Liquid nutrient.

Chemical Description: Liquid fertilizer mixture.

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For

Brandt Consolidated, Inc.
2935 South Koke Mill Road
Springfield, IL 62711

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Phosphoric acid	7664-38-2	7.1	1 mg/m ³ (ACGIH TWA; OSHA PEL) 3 mg/m ³ (ACGIH STEL)	5,000 lbs*

* Equivalent to 7492 gallons

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Odorless, light brown liquid. Avoid contact with strong alkaline materials. Mildly corrosive to common metals. Exposure to high temperatures may result in oxides of sulfur and zinc. Not D.O.T. regulated.

HEALTH: 2 REACTIVITY: 1 FLAMMABILITY: 0 ENVIRONMENT: 1
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

Eyes: Immediately flush with water for at least 15 minutes. Do not rub eyes. Seek medical attention if irritation persists.

Skin: Wash thoroughly with water. Seek medical attention if irritation persists.

Ingestion: If conscious and alert, drink 2 glasses of water or milk to dilute. Follow with milk of magnesia, beaten eggs or vegetable oil. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Not pertinent.
Test Method:	Not pertinent.
LEL Flammable Limits:	Not pertinent.
UEL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	As appropriate for surrounding fire.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal. Alternatively, neutralize with dilute alkaline solution (baking soda, soda ash, or lime) and wash down sewer if Federal, State and local regulations permit.
Evacuation:	Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40 and below 105°F. Do not store near food or feeds or strong alkalies. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Harmful if swallowed. Causes eye and skin irritation. In case of contact, immediately flush eyes or skin with plenty of water.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious clothes and acid-resistant gloves (such as rubber or neoprene).
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8210 Plus).
Ventilation:	Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Light brown liquid.
Odor:	None.
pH:	~3.9
Vapor Pressure:	Not known.
Vapor Density (Air= 1):	Not known.
Boiling Point:	100°C (212°F).
Freezing Point:	Not known.
Water Solubility:	Approx. 98%.
Density:	~9.5 lbs./gal.
Evaporation Rate:	Not known.
Viscosity:	Not known.
% Volatile:	Not known.
Octanol/Water Partition Coefficient:	Not known.
Saturated Vapor Concentration:	Not known.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid / Incompatibility:	Avoid contact with strong alkaline material such as caustic potash (potassium hydroxide) and caustic soda (sodium hydroxide). Mildly corrosive to common metals.
Hazardous Decomposition Products:	Oxides of sulfur and zinc.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	May cause eye irritation.
Skin:	May cause skin irritation.
Ingestion:	May result in nausea, vomiting, diarrhea, blood in vomitus and stools, burning pain in mouth and throat, abdominal pain, lethargy, confusion, edema, leukocytosis, hyperglycemia, acidosis, shock, liver and kidney damage, and other gastrointestinal and neurological symptoms and damage. Ingestion by a child of more than 60 ml. (2 oz.) or by an adult of more than 150 ml. (5 oz.) may be fatal.
Inhalation:	May cause respiratory tract irritation, nausea, vomiting, weakness, fever, chills and loss of appetite. Chronic exposure may cause pneumonia, liver damage and neurological damage.

Medical Conditions

Aggravated by Exposure: Hemochromatosis.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition: Not known.
Toxicity to Fish and Invertebrates: Not known.
Toxicity to Plants: Not known.
Toxicity in Birds: Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T.: Not D.O.T. Regulated.
Other Shipping Description: Fertilizing Compounds (Manufactured), Liquid.
NMFC Item 68140 Sub 6, LTL Class 70)

SECTION 15. REGULATORY INFORMATION

CERCLA: Phosphoric acid is listed as a priority pollutant under the Clean Water Act and, as such, falls under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: None.

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

SECTION 16. OTHER

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Brandt Consolidated, Inc. does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Brandt Consolidated, Inc. assumes legal responsibility.