



Finding New Ways to Improve the  
Treatment of Trees and Plants.

## SAFETY DATA SHEET

PRODUCT NAME: **StressMaster 0-0-31**

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**DISTRIBUTOR:** Quest Products Corporation  
**ADDRESS:** 23611 Linwood Road (K-32)  
Linwood, KS 66052  
**PHONE:** (785)-542-2577

**EMERGENCY CHEMTREC PHONE - US & Canada:** 1-800-424-9300

**CHEMICAL NAME:** StressMaster 0-0-31  
**CHEMICAL FAMILY:** Inorganic Chemical Fertilizer Mixture (Liquid)  
**CHEMICAL FORMULA:** Proprietary mixture

**PRODUCT USE:** Fertilizer

**SECTION 1 NOTES:** None.

### SECTION 2: HAZARDS IDENTIFIED

#### GHS Ratings:

**Signal Word:** CAUTION

#### GHS Hazards

H303 - May be harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H316 - Causes mild skin irritation.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.

#### GHS Precautions

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.  
P233 - Keep container tightly closed.  
P234 - Keep only in original container.  
P261 - Avoid breathing fumes/vapors.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing and eye protection.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P305+313+337+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, then continue rinsing. If eye irritation persists, seek medical advice or attention.



### SECTION 3: COMPONENT INFORMATION

INGREDIENT	CAS NO.	% WT
Potassium Salt of Phosphorus Acid	10294-56-1	30-60%
Proprietary Formulation Ingredients:		100%

**SECTION 3 NOTES:** If Chemical Name/CAS Number is listed as "Proprietary" and/or the Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### CARCINOGENICITY

**OSHA:** No      **ACGIH:** No      **NTP:** No      **IARC:** No      **OTHER:** No

#### SECTION 4: FIRST AID MEASURES

**Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).**

**IF IN EYES:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses if present and easy to do so, after the first 5 minutes - then continue rinsing. If irritation develops or persists, seek medical advice or attention.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing, wash before reuse. Wash skin with plenty of soap and water. Seek medical advice/attention if irritation develops or persists.

**IF SWALLOWED: DO NOT INDUCE VOMITING.** Call a poison control center immediately. Unless advised otherwise by a poison control center or doctor, have person rinse mouth with and drink plenty of water, if able.

**IF INHALED:** Remove to fresh air and ventilate suspected area. Keep at rest in a position comfortable for breathing. Seek medical attention if difficulty breathing develops, condition declines, or symptoms persist.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

**SECTION 4 NOTES:** May cause eye, skin and respiratory tract irritation.

#### SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT °C:** Aqueous solution, will not burn.

**IN CASE OF FIRE:** Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer, or ordinary) for large fires. Water stream may spread flames.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use carbon dioxide universal-type foams on larger fires. Smaller fires should be extinguished with water or dry chemical. Use self-contained breathing apparatus with fighting any fire in an enclosed area.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Remove container from fire area.

**HAZARDOUS COMBUSTION PRODUCTS:** Avoid breathing fumes if ignited, may cause respiratory irritation.

**SECTION 5 NOTES:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

(approved or equivalent) and full protective gear.

**ACCIDENTAL RELEASE MEASURES:** Avoid runoff into storm sewers and ditches which lead to waterways. Stop the source of the spill immediately if it safe to do so. Ventilate the affected area. Wear protective clothing as described in Section 8 of this SDS. Material should be collected and disposed in proper manner.

**CLEAN-UP MEASURES:** Follow federal, state and local regulations for liquid and solid waste disposal. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state and local regulations. Wear suitable protective equipment.

**SECTION 6 NOTES:** Do not breathe vapors. Do not get in eyes, on skin or on clothing. See section 1 for CHEMTREC emergency phone number. See Section 12 for additional Ecological Information. May be re-used for its intended purpose if spilled product is recovered.

#### SECTION 7: HANDLING AND STORAGE

**HANDLING** Keep out of reach of children. Read label before use. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Avoid direct contact with substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid breathing spray mist. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Wear protective gloves, protective clothing, eye protection and face protection.

**STORAGE:** Store in a cool, dry, well-ventilated place. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies.

**SECTION 7 NOTES:** **INCOMPATIBLE MATERIALS** – Strong bases.



#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.**

##### EXPOSURE GUIDELINES:

**VENTILATION:** Normal room ventilation (mechanical) or outdoor use should be satisfactory.

**RESPIRATORY PROTECTION:** Wear a NIOSH/OSHA approved respirator, approved for use with propionic acid, if necessary.

<b>EYE PROTECTION:</b>	Safety glasses with side shields as described by OSHA's eye and face protection regulations in 29CFR 1910.133. 
<b>SKIN PROTECTION:</b>	Impervious protective clothing, long pants and long-sleeved shirt, waterproof gloves (including socks and boots), lab coat, apron or coveralls, as appropriate – to prevent skin contact. 
<b>OTHER PROTECTIVE CLOTHING/EQUIPMENT:</b>	Eye wash and safety shower should be easily accessible.
<b>WORK HYGIENIC PRACTICES:</b>	Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.
<b>EXPOSURE GUIDELINES:</b>	If exposed, see section 4 for acute exposure first aid.
<b>SECTION 8 NOTES:</b>	None

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Clear Liquid	<b>PERCENT VOLATILE (By Volume):</b>	45%
<b>ODOR:</b>	Slight Organic	<b>VAPOR DENSITY (AIR = 1):</b>	@ Not Determined F: N/A C: N/A
<b>ORDER THRESHOLD:</b>	Not Determined	<b>SPECIFIC GRAVITY:</b>	1.50-1.54
<b>PHYSICAL STATE:</b>	Liquid	<b>EVAPORATION RATE:</b>	Not Determined
<b>pH AS SUPPLIED:</b>	7.0-7.5	<b>BASIS (butyl acetate=1):</b>	
<b>pH (Other):</b>		<b>SOLUBILITY IN WATER:</b>	Soluble
<b>INITIAL BOILING POINT:</b>	F: >212° C: 100°	<b>PARTITION COEFFICIENT (n-octanol/water):</b>	No Data Available
<b>BOILING POINT RANGE:</b>	F: Not Determined C: Not Determined	<b>AUTO-IGNITION TEMPERATURE:</b>	Not Determined
<b>MELTING POINT:</b>	F: N/A - Aqueous C: N/A - Aqueous	<b>DECOMPOSITION TEMPERATURE:</b>	Not Determined
<b>FREEZING POINT:</b>	F: Not Determined C: Not Determined	<b>VISCOSITY:</b>	Non-viscous.
<b>FLASH POINT:</b>	F: Not Determined C: Not Determined		
<b>FLAMMABILITY (solid, gas):</b>	N/A – Aqueous Liquid		
<b>FLAMMABLE LIMITS:</b>	Not Determined		
<b>VAPOR PRESSURE (mmHg):</b>	17 nn Hg		

### SECTION 9 NOTES: VALUES ARE NOT PRODUCT SPECIFICATIONS.

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.

## SECTION 10: STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable <input checked="" type="radio"/> Unstable <input type="radio"/>
<b>CONDITIONS TO MAINTAIN STABILITY:</b>	Store in a cool, well-ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep only in original container. Stable for at least 2 years under these conditions.
<b>INCOMPATIBILITY (MATERIAL TO AVOID):</b>	Strong bases, strong oxidizing agents.
<b>HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:</b>	None known based on information supplied.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.
<b>CONDITIONS TO AVOID (POLYMERIZATION):</b>	None known.
<b>SECTION 10 NOTES:</b>	None.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>ACUTE ORAL TOXICITY:</b>	Not established.
<b>ACUTE DERMAL TOXICITY:</b>	Not established.
<b>ACUTE INHALATION TOXICITY:</b>	Not established.
<b>EYE DAMAGE / IRRITATION:</b>	Not established.
<b>SKIN CORROSION:</b>	Not established.

**RESPIRATORY SENSITIZATION:** Not established.  
**CARCINOGENITY:** None listed in OSHA, NTP, IARC or ACGIH.  
**COMPONENT INFORMATION:** **Potassium Salt of Phosphorus Acid (CAS# 10294-56-1)**

**SECTION 11 NOTES:** None.

### SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Due to the non-toxic classification of this product, no negative impact on non-target organisms is expected. Nonetheless – product may be somewhat toxic to fish and aquatic invertebrates. Do not apply to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

**COMPONENT INFORMATION:** **Potassium Salt of Phosphorus Acid (CAS# 10294-56-1)**

**MOBILITY:** Not Determined.

**PERSISTENCE/DEGRADABILITY:** Not Determined.

**BIOACCUMULATION:** Not Determined.

**BIODEGRADATION:** Oxidation, and microorganisms.

### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Do not contaminate water, food or feed by storage or disposal. Dispose of contents in container to an approved waste disposal facility in accordance with all federal, state and local regulations.

**CONTAINER DISPOSAL:** Wash thoroughly with soap and water prior to reuse, if desired.

**Containers with a capacity of equal to or less than 5 gallons:**

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

- 1) Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip.
- 2) Fill the container ¼ full with water and recap. Shake for 10 seconds.
- 3) Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip.
- 4) Repeat this procedure two more times.

**Containers with a capacity of greater than 5 gallons:**

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

- 1) Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures.
- 2) Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times.
- 3) Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal.
- 4) Repeat this procedure two more times.
- 5) Offer for recycling (if available) or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or – if allowed by state and local authorities – by burning. **If burned, keep out of smoke.**

**RCRA HAZARD CLASS:** Not subject to RCRA Subtitle C Regulation

**CALIFORNIA HAZARDOUS WASTE STATUS:** Potassium Hydroxide (CAS#1310-58-3) Toxic, Corrosive.

**SECTION 13 NOTES:** None.

### SECTION 14: TRANSPORT INFORMATION

#### U.S. DEPARTMENT OF TRANSPORTATION

**DOT Shipping Description:** Not Regulated.

**U.S. Surface Freight Classification:** NMFC 101716, class 50 (Liquid). Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

**OTHER AGENCIES:** None.

**SECTION 14 NOTES:**

Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### SARA 311/312 Hazard Categories

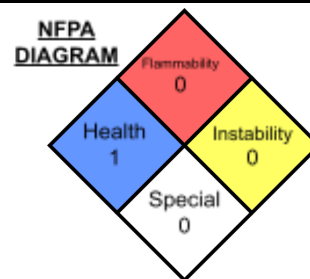
Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### HMIS Hazard Categories

Health	1
Flammability	0
Reactivity	0

**Reportable Quantity under U.S. CERCLA:** Not Listed.

**RCRA Water Code:** Not Listed.



### 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

**SECTION 15 NOTES:** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE)

## SECTION 16: OTHER INFORMATION

**DATE OF PREPARATION/LAST REVISION:** June 24<sup>th</sup>, 2024

#### OTHER INFORMATION:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC, and, as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

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