



# 60% Potassium Lactate “Injection Ready” QRS™ -PL Substrate Package SAFETY DATA SHEET

Effective Date: 06/28/14

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## 1. Product Identification

**Synonyms:** Quick Release Potassium Lactate Substrate (60% QRS® -PL)

**CAS No.:** Mixture

**Molecular Weight:** Not applicable.

**Chemical Formula:** Not applicable.

**Supplier:** Terra Systems, Inc.

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## 2. Composition/Information on Ingredients

Ingredient	CAS #	Percent	Hazardous
Potassium Lactate	85895-78-9	60%	Yes
Water	7732-18-5	40%	No

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## 3. Hazards Identification

### Emergency Overview

**CAUTION! MAY CAUSE EYE IRRITATION.**

Health Rating: 0 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

### Potential Health Effects

**Inhalation:** May be harmful if inhaled and may cause respiratory tract irritation.



**Ingestion:** May be harmful if swallowed.

**Skin Contact:** May be harmful if absorbed through skin. May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

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## 4. First Aid Measures

**Inhalation:** Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:** Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

**Skin Contact:** Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

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## 5. Fire Fighting Measures

**Fire:** Not considered to be a fire hazard and is not flammable or combustible.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. .

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

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## 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth) and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer. Containerized waste may be sent to an approved waste



disposal facility.

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## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid long storage times. Containers of this material may be hazardous when empty since they do retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

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## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** None established.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Wear protective gloves and clean body-covering clothing.

**Eye Protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:** Colorless liquid

**Odor:** Odorless

**Solubility:** Complete (100%)

**Specific Gravity:** 1.33 g/mL



**pH:** 6.5 to 8.5

**% Volatiles by volume @ 21C (70F):** No information found

**Boiling Point:** No information found

**Melting Point:** No information found.

**Vapor Density (Air=1):** No information found.

**Vapor Pressure (mm Hg):** No information found

**Evaporation Rate (BuAc=1):** No information found.

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## 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** No information found

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** No information found.

**Conditions to Avoid:** No information found

## 11. Toxicological Information

Oral rat LD50: No information found

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## 12. Ecological Information

**Environmental Fate:** No information found.

**Persistence/degradability:** No information found

**Bioaccumulation:** No information found

**Ecotoxicity:** No information found

**Environmental Toxicity:** No information found.



## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 14. Transport Information

Not regulated.

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## 15. Regulatory Information

**OSHA STATUS:** This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Section 10.

**TSCA STATUS:** No component of this product is listed on the TSCA inventory.

**CERCLA (Comprehensive Response Compensation, and Liability Act):** Not reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

Section 312 Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Non-hazardous Under Section 311/312

Section 313 Toxic Chemicals: None

**RCRA STATUS:** If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24).

**CALIFORNIA PROPOSITION 65:** The following statement is made in order to comply with the California safe Drinking Water and Toxic Enforcement Act of 1986. The product contains no chemicals known to the State of California to cause cancer.

## 16. Other Information

**NFPA Ratings:** Health: **0** Flammability: **0** Reactivity: **0**

**Revision Information:** MSDS Section(s) changed since last revision of document include: None.

**Disclaimer:**



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