

Material Safety and Data Sheet

I. Chemical Product and Company Identification

Product Name: Quick Cal Solution	Manufacturer: In-Situ, Inc. 221 East Lincoln Avenue Ft. Collins, CO 80524 Telephone: 970 498 1500 Fax: 970 498 1598	Emergency Contact: INFOTRAC Emergency Response Hotline: 1-800-535-5053 (in the U.S. and Canada) 1-352-323-3500 www.infotrac.net
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II. Hazard Identification

Emergency Overview: May cause irritation to the eyes and skin. Irritation may also occur to mucous membranes from vapors. Wash areas of contact with water. Get medical attention if irritation develops.

Target Organs: Inhalation, skin, and ingestion

Eyes	May cause irritation.
Skin	May cause irritation.
Ingestion	May cause upset stomach; DO NOT INGEST!
Inhalation	May cause irritation to mucous membranes.
Chronic Effect / Carcinogenicity	This substance is toxic to blood, lungs, and mucous membranes. None (IARC, NTP, OSHA)
Medical condition aggravated by exposure	Could aggravate diseases of the skin.

III. Composition, Information on Ingredients

Hazardous Components Specific Chemical Identity: Common Names	CAS NO.	%	OSHA PEL	ACGIH TLV
Potassium Dihydrogen Phosphate (KH ₂ PO ₄)	7778-77-0	< 1.0 w/v	None Listed	None Listed
Potassium Chloride (KCl)	7747-40-7	< 1.0 w/v	None Listed	None Listed
Sodium Hydroxide, NaOH	1310-73-2	< 1.0 w/v	None Listed	None Listed
Potassium ferricyanide (K ₃ Fe(CN) ₆)	13746-66-2	< 1.0 w/v	None Listed	None Listed
Potassium ferricyanide trihydrate (K ₃ Fe(CN) ₆ ·3H ₂ O)	14459-95-1	< 1.0 w/v	None Listed	None Listed
Deionized Water, H ₂ O	7732-18-5	>98 w/v	None Listed	None Listed

IV. First Aid

Eyes	Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.
Skin	Flush with water for 15 minutes. Get medical assistance if irritation develops.
Ingestion	DO NOT induce vomiting. Dilute with large amounts of water. Get medical assistance.
Inhalation	Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

V. Fire Fighting Measures

Flash Point	Not flammable
Extinguishing Media	Water, CO ₂ , Dry Chemical, Foam Spray
Fire and Explosion Hazards	None
Fire Fighting Instructions/Equipment	None, Not flammable
NFPA Rating	Scale (0-4); Health: 2; Flammable: 0; Reactivity: 0; Specific: None

VI. Accidental Release Measures

Dilute with water and set aside for disposal. Always obey local regulations.

VII. Handling and Storage

Handling	Emergency eyewash should be available. Wash hands after handling. Avoid contact with skin and eyes.
Storage	Suitable for any general handling storage. Protect from freezing and physical damage. Store in refrigerator.

VIII. Exposure Controls, Personal Protection

Respiratory Protection (specific type)	None
Ventilation	<i>Local Exhaust:</i> None <i>Mechanical (General):</i> Use in Fume Hood <i>Special:</i> None <i>Other:</i> None
Skin Protection	Chemical resistant gloves
Eye Protection	Safety Glasses or goggles

IX. Physical and Chemical Properties

Appearance	Light green liquid	Odor	Odorless
pH @ 25°C	7.00	Solubility in Water	Miscible
Boiling Point	100°C	Specific Gravity	1.0
Melting point	0°C	Vapor Pressure	N/A

X. Stability and Reactivity

Chemical Stability	Stable under normal conditions of use and storage
Conditions to avoid	None
Incompatibility (materials to avoid)	None
Hazardous Decomposition Products	None
Hazardous Polymerization	Does not occur

XI. Toxicological Information

LD50 oral-rat	3020 mg/kg (Potassium Chloride), 1600 mg/kg (Sodium Hydroxide), 190000 (IPR-MUS)
LC50 inhalation-rat	N/A

XII. Ecological Information

Ecotoxicity	N/A
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XIII. Disposal Considerations

Dilute with water and set aside for disposal. Consult Federal, State, and Local regulations for proper disposal.
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XIV. Transport Information

DOT	Not Regulated	IATA	None
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XV. Regulatory Information (not meant to be all inclusive)

OSHA Status	These chemicals are not considered highly hazardous by OSHA.
TSCA	The components of this solution are listed on the TSCA Inventory.
SARA Title III Section 313	N/A
RCRA Status	N/A
CERCLA Reportable Quality	N/A
WHMIS	N/A

XVI. Additional Information

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Document: 0032840

* N/A – Not Applicable/Not Available

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For more information contact In-Situ Inc.

221 East Lincoln Avenue, Fort Collins, CO 80524

1-800-446-7488 (toll-free in U.S. & Canada)

1-970-498-1500 (international & domestic)

www.in-situ.com