

Issuing Date 2/9/2012

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Potassium Test Solution

Product Code(s) 5709

Recommended Use Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.

Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency Telephone Number 24 Hour Emergency Number (CHEM-TEL):
USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Emergency Overview

Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Clear, colorless**Physical State** Liquid**Odor** None

OSHA Regulatory Status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Potential Health Effects**Acute Toxicity****Eyes**

No hazard from product as supplied. May cause slight irritation.

Skin

No hazard from product as supplied.

Inhalation

Not an expected route of exposure.

Ingestion

May cause gastrointestinal discomfort if consumed in extremely large amounts.

Chronic Effects

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethanol	64-17-5	<0.05
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	<0.1
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on clothing.

Eye Contact	Rinse thoroughly with water as necessary. If irritation persists or develops, contact a physician.
Skin Contact	Wash skin with soap and water.
Inhalation	Not expected to require first aid measures.
Ingestion	Drink plenty of water. Consult a physician.
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not a fire hazard.			
Flash Point	Not applicable			
Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.			
Explosion Data				
NFPA	Health Hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 0	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Refer to Section 8. Avoid contact with the skin and the eyes.
Methods for Containment	Dispose according to federal, state, and local regulations.
Methods for Cleaning Up	After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Store at room temperature. Keep away from direct sunlight. Keep away from heat and incompatibles. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	None Known	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

Engineering Measures

Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	Odor	None
Physical State	Liquid	pH	5
Flash Point	Not applicable	Boiling Point/Range	Similar to water 100°C/212°F

Vapor Pressure	Essentially the same as water	Vapor Density	Essentially the same as water
-----------------------	-------------------------------	----------------------	-------------------------------

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Incompatible Products Strong oxidizing agents. Strong reducing agents.

Conditions to Avoid Excessive heat. Direct sunlight.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	1501 mg/kg (Rat)	None Known	124.7 mg/L (Rat) 4 h
Alkyl (C12-16) dimethylbenzylammonium chloride	426 mg/kg (Rat)	None Known	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	None Known	Group 1	Known	None Known
Alkyl (C12-16) dimethylbenzylammonium chloride	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Ethanol	None Known	None Known	None Known
Alkyl (C12-16) dimethylbenzylammonium chloride	None Known	None Known	None Known
Water	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Ethanol	None Known	LC50= 12900 mg/L Oncorhynchus mykiss 96 h LC50= 14.2 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h
Alkyl (C12-16) dimethylbenzylammonium chloride	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Ethanol	-0.32
Alkyl (C12-16) dimethylbenzylammonium chloride	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose according to federal, state, and local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Ethanol - 64-17-5	None Known	None Known	None Known	None Known
Alkyl (C12-16) dimethylbenzylammonium chloride - 68424-85-1	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethanol 64-17-5 (<0.05)	Present	X	X	2-202	X	KE-13217	X	X
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1 (<0.1)	Present	X	X	ENCS	X	KE-29999	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	X	X

U.S. Federal Regulations**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.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethanol	64-17-5	<0.05	None Known
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	<0.1	None Known
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethanol 64-17-5 (<0.05)	None Known	None Known	None Known	None Known
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1 (<0.1)	None Known	None Known	None Known	None Known
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ethanol	64-17-5	<0.05	None Known	None Known	None Known	None Known
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	<0.1	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethanol	None Known	None Known

Alkyl (C12-16) dimethylbenzylammonium chloride	None Known	None Known
Water	None Known	None Known

U.S. State Regulations

California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage

Chemical Name	CAS-No	California Prop. 65
Ethanol	64-17-5	Developmental
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethanol	X	X	X	None Known	X
Alkyl (C12-16) dimethylbenzylammonium chloride	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade




Chemical Name	Carcinogen Status	Exposure Limits
Ethanol	None Known	Mexico: TWA= 1000 ppm Mexico: TWA= 1900 mg/m ³
Alkyl (C12-16) dimethylbenzylammonium chloride	None Known	None Known
Water	None Known	None Known

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR information downloaded from <http://ccinfoweb.ccohs.ca/whmis/search.html>

Component	WHMIS Hazard Class
Ethanol 64-17-5 (<0.05)	0.1 % B2 D2B
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1 (<0.1)	D1B E
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td data-bbox="509 197 716 233">Health Hazard</td> <td data-bbox="721 197 792 233">0</td> </tr> <tr> <td data-bbox="509 239 716 275">Fire Hazard</td> <td data-bbox="721 239 792 275">0</td> </tr> <tr> <td data-bbox="509 281 716 317">Reactivity</td> <td data-bbox="721 281 792 317">0</td> </tr> </table>	Health Hazard	0	Fire Hazard	0	Reactivity	0		
Health Hazard	0								
Fire Hazard	0								
Reactivity	0								

Prepared By Regulatory Affairs Department

Issuing Date 2/9/2012

Revision Date 13-Feb-2012

Revision Note
Initial Release

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS