

C32581

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V# 051700



# Safety Data Sheet

Issuing Date Jun-01-2015

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product name** Potassium Test Solution

**Other means of identification**

**Product Code(s)** 5709

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Use as a laboratory reagent. Industrial (not for food or food contact use). Laboratory chemicals.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

LaMotte Company, Inc.  
802 Washington Avenue  
P.O. Box 329  
Chestertown, MD 21620 USA  
T 410-778-3100  
F 410-778-9748

**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

**OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### EMERGENCY OVERVIEW

**Appearance** Clear, colorless      **Physical state** liquid      **Odor** None

**Precautionary Statements - Prevention**

Keep out of the reach of children.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Drink 1 or 2 glasses of water. Call a physician immediately.

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 4. FIRST AID MEASURES

##### First Aid Measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on clothing.
<b>Eye contact</b>	Rinse thoroughly with water as necessary. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Not expected to require first aid measures.
<b>Ingestion</b>	Drink plenty of water.
<b><u>Self-protection of the first aider</u></b>	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protection recommended in Section 8.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment. See section 8. Avoid contact with the skin and the eyes.
<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.

##### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Dispose according to federal, state, and local regulations.
<b>Methods for cleaning up</b>	After cleaning, flush away traces with water.

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using this product.
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##### Conditions for safe storage, including any incompatibilities

<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep away from direct sunlight. Store away from incompatible materials. Keep out of the reach of children.
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**Incompatible Products** Strong oxidizing agents. Strong reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**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

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid		
<b>Appearance</b>	Clear, colorless	<b>Odor</b>	None

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5	
Melting point / freezing point	No information available	
Boiling point / boiling range	100 °C / 212 °F	
Flash point	Not applicable	
Evaporation rate		
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		Not Applicable
Upper flammability limit:	.	
Lower flammability limit:	.	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Water solubility	Soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	Not Applicable	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

#### Other Information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available

Bulk density No information available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.  
**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** Excessive heat. Direct sunlight.  
**Incompatible materials** Strong oxidizing agents. Strong reducing agents.  
**Hazardous decomposition products**

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Component Information

### Information on toxicological effects

**Chronic toxicity** None known.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Persistence and degradability

No information available.

#### Bioaccumulation/Accumulation

No information available.

## 13. DISPOSAL CONSIDERATIONS

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

**Contaminated packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US 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

**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

**CWA (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)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

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

**U.S. State Right-to-Know Regulations**

**CPSC (Consumer Product Safety Commission) - Specially Regulated Substances**

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health hazard 0</b>	<b>Flammability 0</b>	<b>Instability 0</b>	<b>Physical and Chemical Hazards N/A</b>
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Health Hazard	0
Fire Hazard	0
Reactivity	0

Prepared by Regulatory Affairs Department  
Issuing Date Jun-01-2015  
Revision Date Aug-26-2015  
Reason for revision New US GHS format

**Disclaimer**

The information provided on this SDS 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 Material Safety Data Sheet

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.

<b>Eye Contact</b>	Rinse thoroughly with water as necessary. If irritation persists or develops, contact a physician.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Not expected to require first aid measures.
<b>Ingestion</b>	Drink plenty of water. Consult a physician.
<b>Protection of First-aiders</b>	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

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

### 6. ACCIDENTAL RELEASE MEASURES

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

### 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	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 <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
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 <sup>3</sup>
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>Health Hazard</td> <td>0</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>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