

# **Safety Data Sheet**

**Revision Number** 0

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

**Product identifier** 

Product name SILICA REAGENT #2

Other means of identification

Product Code(s) 4467 UN-No 1814

Recommended use of the chemical and restrictions on use

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

use).

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

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

## **EMERGENCY OVERVIEW**

## DANGER

### Hazard statements

Causes severe skin burns and eye damage.



**Appearance** Clear to slightly cloudy colorless

Physical state liquid

Odor Odorless

#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician. Specific treatment (see .? on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up.

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### **Unknown Acute Toxicity**

10% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Potassium hydroxide	1310-58-3	4
Ammonium molybdate tetrahydrate	12054-85-2	10
Water	7732-18-5	to 100%

## 4. FIRST AID MEASURES

#### **First Aid Measures**

**General advice** Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Rinse thoroughly with plenty of water for at least

15 minutes, lifting lower and upper eyelids. Call a physician immediately.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. Immediate medical attention is required.

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

Call a physician immediately.

Ingestion Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is required.

Never give anything by mouth to an unconscious person. Rinse mouth.

<u>Self-protection of the first aider</u> Use personal protection recommended in Section 8. Ensure that medical personnel are

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination. Avoid contact with eyes, skin and clothing.

# 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

#### 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

Personal precautions Use personal protection recommended in Section 8. Avoid contact with skin, eyes or

clothing. Avoid breathing vapors or mists. Ensure adequate ventilation, especially in

confined areas.

**Environmental precautions** See Section 12 for additional Ecological Information.

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

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container. Dispose of contents/containers in accordance with local regulations.

Methods for cleaning up Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Do not taste or swallow. Do not eat, drink or smoke when using this

product.

#### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials. Do not store in metal containers. Keep out of the reach of children.

Incompatible Products Strong acids. Metals. Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	-	Ceiling: 2 mg/m <sup>3</sup>
Ammonium molybdate tetrahydrate 12054-85-2	TWA: 0.5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup>
Water 7732-18-5	-	-	Not Established

#### **Appropriate engineering controls**

Engineering Measures Ensure adequate ventilation, especially in confined areas.

## Individual protection measures, such as personal protective equipment

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

**Skin and body protection** Gloves & Lab Coat. Impervious clothing. Rubber gloves. Nitrile rubber.

**Respiratory protection** Maintain adequate ventilation.

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. Take off contaminated clothing and wash before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Revision Date Jun-10-2015

Appearance Clear to slightly cloudy colorless Odor Odorless

Property Values Remarks • Method

pH No information available

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash pointNo information available

**Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **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** 

Softening point
Molecular weight
VOC Content (%)
Density
No information available

## 10. STABILITY AND REACTIVITY

**Stability**Stable under recommended storage conditions.
Hazardous polymerization
Hazardous polymerization does not occur.

Conditions to avoid Incompatible Products.

**Incompatible materials** Strong acids. Metals. Strong oxidizing agents.

Hazardous decomposition products Potassium Oxides.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	= 284 mg/kg(Rat)	Not Established	Not Established
Ammonium molybdate tetrahydrate 12054-85-2	Not Established	Not Established	Not Established
Water 7732-18-5	> 90 mL/kg(Rat)	Not Established	Not Established

Information on toxicological effects

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Chemical name	ACGIH	IARC	NTP	OSHA
Potassium hydroxide 1310-58-3	Not Established	Not Established	Not Established	Not Established
Ammonium molybdate	A3	Not Established	Not Established	Not Established

tetrahydrate 12054-85-2				
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

ATEmix (oral) 12500 mg/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 10 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Potassium hydroxide 1310-58-3	Not Established	80: 96 h Gambusia affinis mg/L LC50 static	Not Established
Ammonium molybdate tetrahydrate 12054-85-2	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established

#### Persistence and degradability

Based on components product is expected to be poorly eliminated from water and poorly biodegradable.

## **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Potassium hydroxide 1310-58-3	0.65 0.83
Ammonium molybdate tetrahydrate 12054-85-2	Not Established
Water 7732-18-5	Not Established

# 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose of waste product or used containers according to local regulations. Should not be

released into the environment.

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

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium hydroxide 1310-58-3	Not Established	-	Not Established	Not Established
Ammonium molybdate tetrahydrate 12054-85-2	Not Established	-	Not Established	Not Established
Water 7732-18-5	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium hydroxide 1310-58-3	Not Established	Not Established	Not Established	Not Established
Ammonium molybdate tetrahydrate 12054-85-2	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Potassium hydroxide 1310-58-3	-

Revision Date Jun-10-2015

#### 4467 SILICA REAGENT #2

Ammonium molybdate tetrahydrate 12054-85-2	-
Water 7732-18-5	-

## 14. TRANSPORT INFORMATION

DOT

Proper shipping name POTASSIUM HYDROXIDE SOLUTION

UN-No 18
Hazard Class 8
Packing group II

IATA

Proper shipping name POTASSIUM HYDROXIDE SOLUTION

UN-No 1814
Hazard Class 8
Packing group III

IMDG/IMO

Proper shipping name POTASSIUM HYDROXIDE SOLUTION

UN-No 1814
Hazard Class 8
Packing group ||

# 15. REGULATORY INFORMATION

**International Inventories** 

Does not comply **TSCA DSL/NDSL** Complies Does not comply **EINECS/ELINCS ENCS** Complies **IECSC** Complies **KECL** Does not comply **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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Potassium hydroxide 1310-58-3	Not Established
Ammonium molybdate tetrahydrate	1.0

12054-85-2	
Water	Not Established
7732-18-5	

# SARA 311/312 Hazard Categories

Acute health hazard
Chronic Health Hazard
Fire hazard
Sudden release of pressure hazard
No
Reactive Hazard
No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide 1310-58-3	1000 lb	Not Established	Not Established	Х
Ammonium molybdate tetrahydrate 12054-85-2	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

# 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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Potassium hydroxide 1310-58-3	1000 lb	Not Established	RQ 1000 lb final RQ RQ 454 kg final RQ
Ammonium molybdate tetrahydrate 12054-85-2	-	Not Established	-
Water 7732-18-5	-	Not Established	-

## **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65
Potassium hydroxide 1310-58-3	Not Established
Ammonium molybdate tetrahydrate 12054-85-2	Not Established
Water 7732-18-5	Not Established

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

Component			CPSC (Consumer Product Safety Commission) - Specially Regulated Substances	
Potassium hydroxide 1310-58-3 ( 4 )		cleaners); Add POISON to	Banned, 16 CFR 1500.17 (>=10% by weight in liquid drain cleaners); Add POISON to label, 16 CFR 1500.129 (>=10%, free or chemically unneutralized)	
Chemical name	New Jersey	Massachusetts	Pennsylvania	
Potassium hydroxide 1310-58-3	X	X	X	
Ammonium molybdate tetrahydrate 12054-85-2	Not Established	Not Established	Not Established	
Water 7732-18-5	Not Established	Not Established	Х	
16. OTHER INFORMATION				

4467 SILICA REAGENT #2



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Reason for revision Initial Release

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**Disclaimer** 

Health Hazard

Fire Hazard

Reactivity

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**