

# **Safety Data Sheet**

Revision Number 0

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

**Product identifier** 

Product name Bromcresol Green 1%

Other means of identification

Product Code(s) 2239

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

#### **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 Blue green Physical state liquid Odor None

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

Keep out of the reach of children.

#### **Precautionary Statements - Response**

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.

#### **Unknown Acute Toxicity**

1% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium hydroxide	1310-73-2	0.1
Bromcresol green	76-60-8	1
Water	7732-18-5	to 100%

Sodium hydroxide and/or hydrochloric acid added for pH adjustment

#### 4. FIRST AID MEASURES

**First Aid Measures** 

**General advice** Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

irritation persists or develops, contact a physician.

**Skin contact** Wash skin with soap and water. If irritation develops or persists, consult physician.

**Inhalation** Not expected to require first aid measures. Remove to fresh air.

**Ingestion** Drink 1 or 2 glasses of water. If gastrointestinal distress occurs contact physician.

Self-protection of the first aider

Use personal protective equipment. 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.

Notes to Physician Treat symptomatically.

## 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 See section 8.

**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 according to federal, state, and local regulations.

**Methods for cleaning up**After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Handling 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.

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

**Storage** Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep out of

the reach of children.

**Incompatible Products** Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Bromcresol green 76-60-8	-	-	Not Established
Water 7732-18-5	-	-	Not Established

#### Appropriate engineering controls

Showers **Engineering Measures** 

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 Protective gloves.

None required under normal usage. Maintain adequate ventilation. Respiratory protection

Handle in accordance with good industrial hygiene and safety practice. Wash hands before **Hygiene Measures** 

breaks and immediately after handling the product. Do not eat, drink or smoke when using

this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state liquid

**Appearance** Blue green Odor None

Remarks • Method **Property** Values

рΗ No information available

Melting point / freezing point No information available Boiling point / boiling range No information available Flash point No 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 No information available

**Partition coefficient** No information available **Autoignition temperature** 

Decomposition temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

#### **Other Information**

Softening point
Molecular weight
VOC Content (%)
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 None known based on information supplied.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Carbon oxides (COx).

Sulfur oxides (SOx).

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide 1310-73-2	Not Established	= 1350 mg/kg ( Rabbit )	Not Established
Bromcresol green 76-60-8	Not Established	Not Established	Not Established
Water 7732-18-5	> 90 mL/kg ( Rat )	Not Established	Not Established

#### Information on toxicological effects

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium hydroxide 1310-73-2	Not Established	Not Established	Not Established	Not Established
Bromcresol green 76-60-8	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

## 12. ECOLOGICAL INFORMATION

#### <u>Ecotoxicity</u>

Unknown Aquatic Toxicity 1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

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Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)	
Sodium hydroxide 1310-73-2	Not Established	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Established	
Bromcresol green 76-60-8	Not Established	Not Established	Not Established	
Water 7732-18-5	Not Established	Not Established	Not Established	

## Persistence and degradability

No information available.

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#### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Sodium hydroxide 1310-73-2	Not Established
Bromcresol green 76-60-8	Not Established
Water 7732-18-5	Not Established

## 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

Dispose of waste product or used containers according to local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium hydroxide 1310-73-2	Not Established	-	Not Established	Not Established
Bromcresol green 76-60-8	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
Sodium hydroxide 1310-73-2	Not Established	Not Established	Not Established	Not Established
Bromcresol green 76-60-8	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	
Sodium hydroxide 1310-73-2	-	
Bromcresol green 76-60-8	-	
Water 7732-18-5	-	

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

IMDG/IMO Not regulated

Not regulated

## 15. REGULATORY INFORMATION

#### **International Inventories**

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies Does not comply **ENCS IECSC** Complies Complies **KECL 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

Chemical name	SARA 313 - Threshold Values %
Sodium hydroxide 1310-73-2	Not Established
Bromcresol green 76-60-8	Not Established
Water 7732-18-5	Not Established

## 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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	Not Established	Not Established	Not Established	Not Established
Bromcresol green 76-60-8	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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Sodium hydroxide 1310-73-2	1000 lb	Not Established	RQ 1000 lb final RQ RQ 454 kg final RQ
Bromcresol green 76-60-8	-	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
Sodium hydroxide 1310-73-2	Not Established
Bromcresol green 76-60-8	Not Established
Water 7732-18-5	Not Established

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	X	X	X
Bromcresol green 76-60-8	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	X

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

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances		
Sodium hydroxide 1310-73-2	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)		
16. OTHER INFORMATION			

NFPA Health hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards N/A HMIS Health hazard 0 Flammability 0 Stability 0



Prepared by Issuing Date Reason for revision Regulatory Affairs Department

Nov-11-2015 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 Safety Data Sheet** 



## **Safety Data Sheet**

**Revision Number** 0

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

**Product identifier** 

Product name Nitrogen Extracting Solution

Other means of identification

**Product Code(s) 5702 UN-No** 1789

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
Serious eye damage/eye irritation	Category 1

## **EMERGENCY OVERVIEW**

## **DANGER**

#### Hazard statements

Causes severe skin burns and eye damage.



Appearance Clear, colorless

Physical state liquid

Odor Odorless

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

Do not taste or swallow. 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.

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

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

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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Polyacrylamides	9003-05-8	<0.01
Hydrochloric acid	7647-01-0	0.8
Water	7732-18-5	to 100%

#### 4. FIRST AID MEASURES

#### **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. Do not breathe dust/fume/gas/mist/vapors/spray.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In

case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. 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. If symptoms persist, call a physician.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Call a physician

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

Self-protection of the first aider

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.

## 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Hazardous combustion products**

Contact with metals may evolve flammable hydrogen gas.

#### 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 Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid

contact with eyes, skin and clothing.

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

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

**Methods for cleaning up**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. Do not taste or

swallow. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes

or clothing.

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. Store away from strong bases or metals. Keep out of the reach of

children.

Incompatible Products Strong bases. Metals.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Polyacrylamides 9003-05-8	-	-	Not Established
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	Ceiling 5 ppm (7mg/m³)	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m³
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. Protective gloves. Nitrile rubber.

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

Physical state liquid

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Appearance Clear, colorless Odor Odorless

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** <1

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

Flash point Not Applicable .

**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

Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
Oxidizing properties
No information available
No information available
No information available
No information available

Other Information

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

## 10. STABILITY AND REACTIVITY

Not Applicable

**Stability** Stable under recommended storage conditions.

**Hazardous Reactions**Contact with metals may evolve flammable hydrogen gas.

Hazardous polymerization Hazardous polymerization does not occur.

**Conditions to avoid** Excessive heat. Direct sunlight. Incompatible Products.

**Incompatible materials** Strong bases. Metals.

Hazardous decomposition products

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyacrylamides 9003-05-8	> 1 g/kg(Rat)	Not Established	Not Established
Hydrochloric acid 7647-01-0	238 - 277 mg/kg (Rat)	> 5010 mg/kg(Rabbit)	= 1.68 mg/L (Rat) 1 h
Water 7732-18-5	> 90 mL/kg ( Rat )	Not Established	Not Established

Information on toxicological effects

in or mation on toxicological choose				
Chemical name	ACGIH	IARC	NTP	OSHA
Polyacrylamides	-	Not Established	Not Established	-

9003-05-8				
Hydrochloric acid 7647-01-0	-	Group 3	Not Established	-
Water 7732-18-5	-	Not Established	Not Established	-

ATEmix (inhalation-dust/mist) 62.6 mg/l

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Unknown Aquatic Toxicity 0.2 % 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)
Polyacrylamides 9003-05-8	Not Established	Not Established	Not Established
Hydrochloric acid 7647-01-0	Not Established	282: 96 h Gambusia affinis mg/L LC50 static	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established

#### Persistence and degradability

Inherently biodegradable, fulfilling criteria.

## **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Polyacrylamides 9003-05-8	Not Established
Hydrochloric acid 7647-01-0	Not Established
Water 7732-18-5	Not Established

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** 

Dispose of waste product or used containers according to local regulations. Dispose according to federal, state, and local regulations. If permitted, neutralize reagent with sodium bicarbonate/sodium carbonate, add slurry to large volume of water to dilute, rinse to drain with excess water.

## Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Polyacrylamides 9003-05-8	Not Established	-	Not Established	Not Established
Hydrochloric acid 7647-01-0	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
Polyacrylamides 9003-05-8	Not Established	Not Established	Not Established	Not Established
Hydrochloric acid 7647-01-0	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
Polyacrylamides 9003-05-8	-
Hydrochloric acid	-

7647-01-0	
Water	-
7732-18-5	

## 14. TRANSPORT INFORMATION

DOT

Proper shipping name HYDROCHLORIC ACID

UN-No 1789
Hazard Class 8
Packing group III

**IATA** 

Proper shipping name HYDROCHLORIC ACID

UN-No 1789
Hazard Class 8
Packing group III

IMDG/IMO

Proper shipping name HYDROCHLORIC ACID

UN-No 1789
Hazard Class 8
Packing group III

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies Does not comply **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS 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 %	
Polyacrylamides 9003-05-8	Not Established	
Hydrochloric acid 7647-01-0	1.0	

Water 7732-18-5	Not Established
SARA 311/312 Hazard Categories	·
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	Yes

## **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
Polyacrylamides 9003-05-8	Not Established	Not Established	Not Established	Not Established
Hydrochloric acid 7647-01-0	5000 lb	Not Established	Not Established	Х
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Polyacrylamides 9003-05-8	-	Not Established	-
Hydrochloric acid 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ
Water 7732-18-5	-	Not Established	-

## **US State Regulations**

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

Chemical name	New Jersey	Massachusetts	Pennsylvania		
Polyacrylamides 9003-05-8	Not Established	Not Established	Not Established		
Hydrochloric acid 7647-01-0	Х	X	Х		
Water Not Established Not Established X 7732-18-5					
16. OTHER INFORMATION					

NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards W

HMIS Health hazard 1 Flammability 0 Stability 1



Prepared by

Regulatory Affairs Department

Issuing DateApr-30-2015Revision DateApr-30-2015

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** 



# **Safety Data Sheet**

**Revision Number** 0

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

Product identifier

Product name NITROGEN INDICATING POWDER

Other means of identification

Product Code(s) 5703

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Industrial (not for food or food contact use). Research and

Development.

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

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

#### **EMERGENCY OVERVIEW**

#### WARNING

#### Hazard statements

Harmful if swallowed. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.



Appearance Off-white Physical state powder Odor Odorless

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell.

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

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, Rinse mouth

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

Store in a well-ventilated place. Keep cool.

#### **Precautionary Statements - Disposal**

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

#### Other Hazards

Very toxic to aquatic life with long lasting effects

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Zinc; Zinc Dust	7440-66-6	<1
Manganese sulfate monohydrate	10034-96-5	1-5
Sucrose	57-50-1	25-35
Barium sulfate	7727-43-7	60-70

## 4. FIRST AID MEASURES

#### **First Aid Measures**

**General advice** Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

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

contaminated clothing and wash before reuse. If symptoms persist, call a physician.

**Inhalation** Remove to fresh air.

Ingestion Never give anything by mouth to an unconscious person. Drink plenty of water. Consult a

physician if necessary.

<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.

## 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

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

#### Sensitivity to Static Discharge

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

#### 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

Revision Date Jul-06-2015

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

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid

contact with skin, eyes or clothing.

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

Methods and material for containment and cleaning up

Methods for cleaning up Avoid dust formation. Sweep up and shovel into suitable containers for disposal. After

cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling 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.

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

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

heat, moisture, and incompatibles. Keep away from heat. Keep out of the reach of children.

**Incompatible Products** Strong acids. Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zinc; Zinc Dust 7440-66-6	-	-	Not Established
Manganese sulfate monohydrate 10034-96-5	TWA: 0.02 mg/m³ TWA: 0.1 mg/m³	Ceiling: 5 mg/m³	IDLH: 500 mg/m³ TWA: 1 mg/m³ STEL: 3 mg/m³
Sucrose 57-50-1	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m³ TWA: 5 mg/m³
Barium sulfate 7727-43-7	TWA: 5 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m³ TWA: 5 mg/m³

#### **Appropriate engineering controls**

Engineering Measures Showers. Eyewash stations. 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.

exposure limit they must use appropriate certified respirators.

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

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and

face before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

#### **5703 NITROGEN INDICATING POWDER**

Physical state powder Appearance Off-white

**Odor** Odorless

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

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:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
No information available

Water solubility Partly soluble

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 Heat, flames and sparks. Exposure to air or moisture over prolonged periods.

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

Hazardous decomposition products Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Sulfur

oxides (SOx). Barium oxides. Carbon oxides (COx).

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component Information** 

Component information				
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Zinc; Zinc Dust 7440-66-6	Not Established	Not Established	Not Established	
Manganese sulfate monohydrate 10034-96-5	= 782 mg/kg(Rat)	Not Established	Not Established	
Sucrose 57-50-1	= 29700 mg/kg (Rat)	Not Established	Not Established	
Barium sulfate 7727-43-7	Not Established	Not Established	Not Established	

#### Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Zinc; Zinc Dust 7440-66-6	Not Established	Not Established	Not Established	Not Established
Manganese sulfate monohydrate 10034-96-5	Not Established	Not Established	Not Established	Not Established
Sucrose 57-50-1	Not Established	Not Established	Not Established	Not Established
Barium sulfate 7727-43-7	Not Established	Not Established	Not Established	Not Established

Chronic toxicity No known effect. None known.

ATEmix (oral) 737 ATEmix (inhalation-dust/mist) 2.3 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 98.02 % 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)
Zinc; Zinc Dust 7440-66-6	0.09 - 0.125: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.11 - 0.271: 96 h Pseudokirchneriella subcapitata mg/L EC50 static		0.139 - 0.908: 48 h Daphnia magna mg/L EC50 Static
Manganese sulfate monohydrate 10034-96-5	Not Established	Not Established	Not Established
Sucrose 57-50-1	Not Established	Not Established	Not Established
Barium sulfate 7727-43-7	Not Established	Not Established	Not Established

## Persistence and degradability

No information available.

## **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Zinc; Zinc Dust 7440-66-6	Not Established
Manganese sulfate monohydrate 10034-96-5	Not Established
Sucrose 57-50-1	Not Established
Barium sulfate 7727-43-7	Not Established

13. DISPOSAL CONSIDERATIONS		
Disposal Methods	Dispose of waste product or used containers according to local regulations.	
Contaminated packaging	Dispose of waste product or used containers according to local regulations.	

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Zinc; Zinc Dust 7440-66-6	Not Established	-	Not Established	Not Established
Manganese sulfate monohydrate 10034-96-5	Not Established	-	Not Established	Not Established
Sucrose 57-50-1	Not Established	-	Not Established	Not Established
Barium sulfate 7727-43-7	(hazardous constituent - no waste number)	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Zinc; Zinc Dust 7440-66-6	Not Established	Not Established	Not Established	Not Established
Manganese sulfate monohydrate 10034-96-5	Not Established	Not Established	Not Established	Not Established
Sucrose 57-50-1	Not Established	Not Established	Not Established	Not Established
Barium sulfate 7727-43-7	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Zinc; Zinc Dust	-
7440-66-6	
Manganese sulfate monohydrate 10034-96-5	-
Sucrose 57-50-1	-
Barium sulfate 7727-43-7	-

## 14. TRANSPORT INFORMATION

DOT Not regulated

Not regulated <u>IATA</u>

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA** 

DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Complies **KECL** Does not comply

**PICCS** Complies Complies **AICS** 

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 %
Zinc; Zinc Dust 7440-66-6	1.0
Manganese sulfate monohydrate 10034-96-5	1.0
Sucrose 57-50-1	Not Established
Barium sulfate 7727-43-7	1.0

#### SARA 311/312 Hazard Categories

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

## **CWA (Clean Water Act)**

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc; Zinc Dust 7440-66-6	Not Established	X	X	Not Established
Manganese sulfate monohydrate 10034-96-5	Not Established	Not Established	Not Established	Not Established
Sucrose 57-50-1	Not Established	Not Established	Not Established	Not Established
Barium sulfate 7727-43-7	Not Established	Not Established	Not Established	Not Established

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Zinc; Zinc Dust 7440-66-6	1000 lb	Not Established	RQ 454 kg final RQ RQ 1000 lb final RQ
Manganese sulfate monohydrate 10034-96-5	-	Not Established	-
Sucrose 57-50-1	-	Not Established	-
Barium sulfate 7727-43-7	-	Not Established	-

## **US State Regulations**

## California Proposition 65

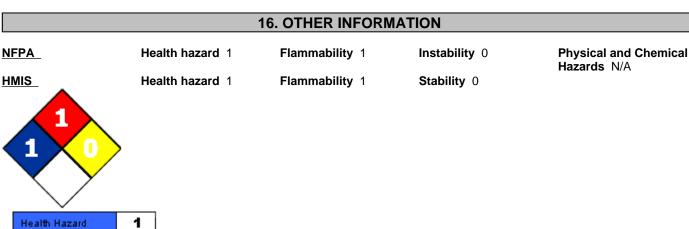
Chemical name	California Proposition 65
Zinc; Zinc Dust 7440-66-6	Not Established
Manganese sulfate monohydrate 10034-96-5	Not Established

Sucrose 57-50-1	Not Established
Barium sulfate 7727-43-7	Not Established

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Zinc; Zinc Dust 7440-66-6	X	X	X
Manganese sulfate monohydrate 10034-96-5	X	Not Established	X
Sucrose 57-50-1	Not Established	X	X
Barium sulfate 7727-43-7	X	X	Х

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



Prepared by
Issuing Date
Revision Date
Reason for revision

Regulatory Affairs Department
Jun-01-2015
Jul-06-2015
Initial Release

4

**Disclaimer** 

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** 



# **Safety Data Sheet**

Revision Number 0

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

**Product identifier** 

Product name PH INDICATOR SOLUTION

Other means of identification

Product Code(s) 5701

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

#### **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 Blue green Physical state liquid Odor None

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

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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** 

**General advice** Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

**Skin contact** Wash skin with soap and water. If symptoms persist, call a physician.

**Inhalation** Remove to fresh air.

**Ingestion** Drink 1 or 2 glasses of water. Consult a physician if necessary.

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

spread of contamination.

Notes to Physician Treat symptomatically.

#### 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 See section 8.

**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 according to federal, state, and local regulations.

**Methods for cleaning up**After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Handling 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.

Conditions for safe storage, including any incompatibilities

Storage Keep tightly closed in a dry and cool place. Protect from light. Keep in properly labeled

containers. Keep out of the reach of children.

Incompatible Products Strong oxidizing 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 Protective gloves.

**Respiratory protection** None required under normal usage. Maintain adequate ventilation.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and immediately after handling the product. Do not eat, drink or smoke when using

this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Appearance Blue green Odor None

Property Values Remarks • Method

pH 7 No information available

Melting point / freezing point

No information available

No information available

Boiling point / boiling range
No information available
No information available

**Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air

No information available Upper flammability limit: 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

Autoignition temperature

Decomposition temperature

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

No information available
No information available
No information available
No information available

**Other Information** 

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information available

Revision Date Jun-23-2015

DensityNo information availableBulk densityNo 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 None known based on information supplied.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Carbon oxides (COx).

Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Component Information** 

Information on toxicological effects

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Unknown Aquatic Toxicity 100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

**Bioaccumulation/Accumulation** 

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose of waste product or used containers according to local regulations.

**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** Does not comply Does not comply **ENCS IECSC** Complies **KECL** Does not comply Complies **PICCS** Complies **AICS** 

#### 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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **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

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

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

# NFPA Health hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards N/A HMIS Health hazard 1 Flammability 0 Stability 0



Prepared by
Issuing Date
Revision Date
Reason for revision

Regulatory Affairs Department
Jun-01-2015
Jun-23-2015
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** 



# **Safety Data Sheet**

OSHA format Revision Number 0

Revision Date Mar-02-2016

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

Product identifier

Issuing Date May-05-2015

Product name Phosphorous Indicator

Other means of identification

 Product Code(s)
 5705

 UN-No
 2790

#### 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 2
Serious eye damage/eye irritation	Category 2

## **EMERGENCY OVERVIEW**

#### WARNING

#### Hazard statements

Causes skin irritation. Causes serious eye irritation.



Appearance Clear, colorless

Physical state liquid

Odor vinegar

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

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep out of the reach of children.

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. 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\*

Chemical name	CAS No	Weight-%
Sodium molybdate dihydrate	10102-40-6	2.5
Acetic acid	64-19-7	10

## 4. FIRST AID MEASURES

**First Aid Measures** 

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

attendance.

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

present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

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

contaminated clothing and wash before reuse. Call a physician immediately.

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

Give artificial respiration if victim is not breathing. Call a physician immediately.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Call a physician

immediately.

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

spread of contamination.

## 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 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.

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

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Methods for cleaning up 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

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

product. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

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

moisture. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents. Metals. Alcohols. Amines.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

	Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
	Sodium molybdate dihydrate	Sodium molybdate dihydrate TWA: 0.5 mg/m³ Mo respirable		IDLH: 1000 mg/m <sup>3</sup> Mo
	10102-40-6	fraction	(vacated) TWA: 5 mg/m <sup>3</sup> Mo	_
Г	Acetic acid	STEL: 15 ppm	TWA: 10 ppm	IDLH: 50 ppm
	64-19-7	TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
			(vacated) TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>
			(vacated) TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm
				STEL: 37 mg/m <sup>3</sup>

**Appropriate engineering controls** 

Engineering Measures Provide appropriate exhaust ventilation at places where dust is formed. Ensure that

eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

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

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

**Respiratory protection** Maintain adequate ventilation.

Hygiene Measures Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial

hygiene and safety practice. Wash hands and face 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

Appearance Clear, colorless Odor vinegar

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Hq :

Melting point / freezing point

Boiling point / boiling range

No information available

No information available

Flash point Not Applicable

**Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity
Water solubility
No information available
No information available
No information available
No data available
Soluble in water

Solubility in other solvents No information available No information available Partition coefficient No information available Autoignition temperature No information available **Decomposition temperature** No information available Kinematic viscosity Dynamic viscosity No information available No information available **Explosive properties Oxidizing properties** No information available

Other Information

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

## 10. STABILITY AND REACTIVITY

StabilityStable under recommended storage conditions.Hazardous ReactionsHazardous polymerization does not occur.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Direct sunlight.

**Incompatible materials** Strong oxidizing agents. Metals. Alcohols. Amines.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Carbon oxides (COx).

Sodium oxides.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Sodium molybdate dihydrate	= 4 g/kg (Rat) = 4000 mg/kg (Rat	Not Established	> 2080 mg/m <sup>3</sup> (Rat) 4 h
10102-40-6	)		
Acetic acid	= 3310 mg/kg (Rat)	= 1060 mg/kg ( Rabbit )	= 11.4 mg/L (Rat) 4 h
64-19-7	5 5 , ,		<b>5</b> , ,

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium molybdate dihydrate 10102-40-6	А3	Not Established	Not Established	Not Established
Acetic acid 64-19-7	Not Established	Not Established	Not Established	Not Established

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

**ATEmix (oral)** 27,426.00 mg/kg **ATEmix (dermal)** 10,600.00 mg/kg mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 2.5 % 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)
Sodium molybdate dihydrate	Not Established	Not Established	Not Established
10102-40-6			
Acetic acid	Not Established	75: 96 h Lepomis macrochirus	47: 24 h Daphnia magna mg/L
64-19-7		mg/L LC50 static 79: 96 h	EC50 65: 48 h Daphnia magna
		Pimephales promelas mg/L LC50	mg/L EC50 Static
		static	

#### Persistence and degradability

No information available.

## **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Sodium molybdate dihydrate 10102-40-6	Not Established
Acetic acid 64-19-7	-0.31

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose according to federal, state, and local regulations.

**Contaminated packaging** Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium molybdate dihydrate 10102-40-6	Not Established	-	Not Established	Not Established
Acetic acid 64-19-7	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
	Organic Compounds			
Sodium molybdate dihydrate 10102-40-6	Not Established	Not Established	Not Established	Not Established
Acetic acid 64-19-7	Not Established	Not Established	Not Established	Not Established

Chemical nameCalifornia Hazardous Waste StatusSodium molybdate dihydrate<br/>10102-40-6ToxicAcetic acid<br/>64-19-7ToxicCorrosive<br/>Ignitable

## 14. TRANSPORT INFORMATION

DOT

Proper shipping name ACETIC ACID SOLUTION (>10%, <50%)

UN-No 2790 Hazard Class 8 Packing group III

IATA

Proper shipping name ACETIC ACID SOLUTION (>10%, <50%)

UN-No 2790
Hazard Class 8
Packing group III

IMDG/IMO

Proper shipping name ACETIC ACID SOLUTION (>10%, <50%)

UN-No 2790 Hazard Class 8 Packing group III

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply **ENCS** Complies **IECSC** Complies Does not comply **KECL 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

Chemical name	SARA 313 - Threshold Values %
Sodium molybdate dihydrate	Not Established
10102-40-6	N. F. J. P. J.
Acetic acid 64-19-7	Not Established

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
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
Sodium molybdate dihydrate 10102-40-6	Not Established	Not Established	Not Established	Not Established
Acetic acid 64-19-7	5000 lb	Not Established	Not Established	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Sodium molybdate dihydrate 10102-40-6	-	Not Established	-
Acetic acid 64-19-7	5000 lb	Not Established	RQ 5000 lb final RQ RQ 2270 kg final RQ

## **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65	
Sodium molybdate dihydrate	Not Established	
10102-40-6		
Acetic acid	Not Established	
64-19-7		

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium molybdate dihydrate	Not Established	Not Established	Not Established
10102-40-6			
Acetic acid	X	X	X
64-19-7			

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

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances			
Acetic acid 64-19-7	Add POISON to label, 16 CFR 1500.129			
16. OTHER INFORMATION				

NFPA Health hazard 2 Flammability 0 Instability 0 Physical and Chemical Hazards N/A



Prepared by Issuing Date Revision Date Reason for revision Disclaimer Regulatory Affairs Department May-05-2015

Mar-02-2016

(M)SDS sections updated 2 14

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 Safety Data Sheet** 



## **Safety Data Sheet**

Revision Number 0

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

**Product identifier** 

Product name Phosphorus Extracting Solution

Other means of identification

Product Code(s) 5704

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

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

#### **EMERGENCY OVERVIEW**

Appearance Clear, colorless Physical state liquid Odor vinegar

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

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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.

#### Other Hazards

May cause skin and eye irritation

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Acetic acid	64-19-7	3
Sodium acetate	6131-90-4	10

#### 4. FIRST AID MEASURES

**First Aid Measures** 

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

attendance.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

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

contaminated clothing and wash before reuse. If symptoms persist, call a physician.

**Inhalation** Remove to fresh air.

**Ingestion** Drink plenty of water. Consult a physician if necessary.

Self-protection of the first aider 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.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus 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.

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

Methods and material for containment and cleaning up

Methods for containment Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in

a chemical waste container for later disposal. Dispose according to federal, state, and local regulations. Dispose according to local regulations, if permitted dissolve in water and rinse

to drain.

**Methods for cleaning up**After cleaning, flush away traces with water.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Handling 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.

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

**Storage** Do not store in metal containers. Store away from strong acids and oxidizers.

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetic acid	15 ppm STEL	TWA: 10 ppm	IDLH: 50 ppm
64-19-7	TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
			TWA: 25 mg/m <sup>3</sup>
			STEL: 15 ppm
			STEL: 37 mg/m <sup>3</sup>
Sodium acetate	-	-	Not Established
6131-90-4			

#### Appropriate engineering controls

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location.

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). Avoid contact with eyes.

Skin and body protection Gloves & Lab Coat.

**Respiratory protection** Maintain adequate ventilation.

**Hygiene Measures** Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial

hygiene and safety practice. Wash hands and face before breaks and immediately after

handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Appearance Clear, colorless Odor vinegar

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 5 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:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity
Water solubility
No information available
No information available
No information available
No data available
No information available

Water solubility

Solubility in other solvents

Partition coefficient

Autoignition temperature

No information available
No information available
No information available

Decomposition temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo 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 Excessive heat.

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

Hazardous decomposition products Carbon oxides (COx). Nitrogen oxides (NOx). Sodium oxides.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Inhalation** None known.

**Eye contact** May cause temporary eye irritation. **Skin contact** Substance may cause slight skin irritation.

Ingestion May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large

amounts.

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetic acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg ( Rabbit )	= 11.4 mg/L (Rat) 4 h
Sodium acetate 6131-90-4	= 3530 mg/kg (Rat)	> 10 g/kg(Rabbit)	> 30 g/m³(Rat)1 h

#### Information on toxicological effects

Carcinogenicity There are no known carcinogenic chemicals in this product.

Chemical name	ACGIH	IARC	NTP	OSHA	
Acetic acid 64-19-7	Not Established	Not Established	Not Established	Not Established	
Sodium acetate 6131-90-4	Not Established	Not Established	Not Established	Not Established	

 ATEmix (oral)
 27608

 ATEmix (dermal)
 27613 mg/kg

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 0.00188 % 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)
Acetic acid 64-19-7	Not Established	75: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Pimephales promelas mg/L LC50 static	47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static
Sodium acetate 6131-90-4	Not Established	5000: 24 h Lepomis macrochirus mg/L LC50 static	1000: 48 h Daphnia magna mg/L EC50

#### Persistence and degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Acetic acid 64-19-7	-0.31
Sodium acetate 6131-90-4	Not Established

#### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose according to federal, state, and local regulations.

**Contaminated packaging** Dispose of waste product or used containers according to local regulations.

	Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
	Acetic acid 64-19-7	Not Established	-	Not Established	Not Established
Ī	Sodium acetate 6131-90-4	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Acetic acid 64-19-7	Not Established	Not Established	Not Established	Not Established
Sodium acetate 6131-90-4	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Acetic acid 64-19-7	-
Sodium acetate 6131-90-4	-

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

#### 15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Does not comply
EINECS/ELINCS Does not comply

**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 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	SARA 313 - Threshold Values %
Acetic acid 64-19-7	Not Established
Sodium acetate 6131-90-4	Not Established

#### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
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
Acetic acid 64-19-7	5000 lb	Not Established	Not Established	Х
Sodium acetate 6131-90-4	Not Established	Not Established	Not Established	Not Established

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Acetic acid 64-19-7	5000 lb	Not Established	RQ 5000 lb final RQ RQ 2270 kg final RQ
Sodium acetate 6131-90-4	-	Not Established	-

#### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65
Acetic acid 64-19-7	Not Established
Sodium acetate 6131-90-4	Not Established

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
---------------	------------	---------------	--------------

Acetic acid 64-19-7	Х	Х	Х
Sodium acetate 6131-90-4	Not Established	Not Established	Not Established

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

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances	
Acetic acid 64-19-7	Add POISON to label, 16 CFR 1500.129 (>=20%, free or chemically unneutralized)	
16. OTHER INFORMATION		

NFPA	Health hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards N/A
HMIS	Health hazard 1	Flammability 0	Stability 0	



Prepared by Regulatory Affairs Department

Issuing Date
Revision Date
Jun-05-2015
Jun-23-2015
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** 



## **Safety Data Sheet**

Revision Number 0

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

**Product identifier** 

Product name Phosphorus Tablet

Other means of identification

Product Code(s) 5706A

Recommended use of the chemical and restrictions on use

Recommended Use Test kit reagent for water testing. 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 White Physical state Tablet ~0.1g (100mg) Odor Odorless

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

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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.

#### Other Hazards

May be harmful if swallowed Harmful to aquatic life with long lasting effects

\_\_\_\_

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Stannous chloride	10025-61-1	<2
Potassium chloride	7447-40-7	99

#### 4. FIRST AID MEASURES

**First Aid Measures** 

**General advice** Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician. Show this

safety data sheet to the doctor in attendance. Do not breathe

dust/fume/gas/mist/vapors/spray.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin contact**Consult a physician if necessary. Wash off immediately with soap and plenty of water

removing all contaminated clothes and shoes.

Inhalation Remove to fresh air. Consult a physician. If breathing is irregular or stopped, administer

artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist or develop contact physician. Do

NOT induce vomiting.

**Self-protection of the first aider** Use personal protective equipment.

#### 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 Ensure adequate ventilation. Avoid dust formation. Use personal protection recommended

in Section 8.

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. See Section 12 for additional Ecological

Information.

Methods and material for containment and cleaning up

**Methods for containment**Sweep up in a manner that does not dispurse dust and shovel into suitable containers for

disposal.

Methods for cleaning up Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Do not eat, drink, or smoke when using this product. Avoid contact with eyes, skin and

clothing. Wear personal protective equipment. Take off contaminated clothing and wash

before reuse. Do not breathe mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

**Storage** Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated

place.

Incompatible Products None known based on information supplied.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Stannous chloride 10025-61-1	-	-	Not Established
Potassium chloride 7447-40-7	<del>-</del>	-	Not Established

#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

Skin and body protection Gloves & Lab Coat.

**Respiratory protection** None required under normal usage.

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

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands before

breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Tablet ~0.1g (100mg)

Appearance White Odor Odorless

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 3.25 (+/- 0.25) q point No information available

Melting point / freezing point Boiling point / boiling range

No information available Not Applicable No information

available

**Evaporation rate** 

Flash point

Flammability (solid, gas) No information available Flammability Limit in Air

#### **5706A Phosphorus Tablet**

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity
No information available
No information available
No information available
No information available

Water solubility Soluble in water Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition temperature 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.

Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

**Conditions to avoid** Exposure to air or moisture over prolonged periods. **Incompatible materials** None known based on information supplied.

Hazardous decomposition products None known.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Stannous chloride 10025-61-1	Not Established	Not Established	Not Established
Potassium chloride 7447-40-7	= 2600 mg/kg (Rat)	Not Established	Not Established

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Stannous chloride 10025-61-1	Not Established	Not Established	Not Established	Not Established
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	Not Established

ATEmix (oral) 2478

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 1.59 % 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)
Stannous chloride 10025-61-1	Not Established	Not Established	Not Established

	Potassium chloride 7447-40-7	2500: 72 h Desmodesmus subspicatus mg/L EC50	promelas mg/L LC50 static 1060:	
١			96 h Lepomis macrochirus mg/L	mg/L EC50 Static
-			LC50 static	

#### Persistence and degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Stannous chloride 10025-61-1	Not Established
Potassium chloride 7447-40-7	Not Established

#### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose of waste product or used containers according to local regulations.

**Contaminated packaging** Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Stannous chloride 10025-61-1	Not Established	-	Not Established	Not Established
Potassium chloride 7447-40-7	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Stannous chloride 10025-61-1	Not Established	Not Established	Not Established	Not Established
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Stannous chloride 10025-61-1	-
Potassium chloride 7447-40-7	-

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

<u>IATA</u> Not regulated

IMDG/IMO Not regulated

#### 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Does not comply
DSL/NDSL Does not comply
EINECS/ELINCS Does not comply
ENCS Does not comply

**IECSC** Does not comply **KECL** Does not comply Does not comply **PICCS AICS** Does not comply

#### 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

Chemical name	SARA 313 - Threshold Values %
Stannous chloride 10025-61-1	Not Established
Potassium chloride 7447-40-7	Not Established

#### SARA 311/312 Hazard Categories

Acute health hazard Yes **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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Stannous chloride 10025-61-1	Not Established	Not Established	Not Established	Not Established
Potassium chloride 7447-40-7	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
Stannous chloride 10025-61-1	-	Not Established	-
Potassium chloride 7447-40-7	-	Not Established	-

#### **US State Regulations**

#### California Proposition 65

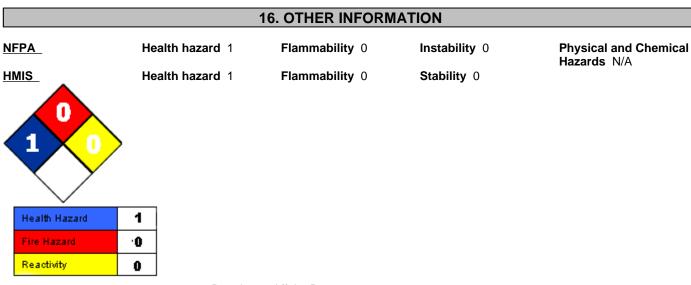
This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65
Stannous chloride 10025-61-1	Not Established
Potassium chloride 7447-40-7	Not Established

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Stannous chloride 10025-61-1	Not Established	Not Established	Not Established
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established

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



Prepared by Issuing Date Revision Date Reason for revision Regulatory Affairs Department Jun-01-2015 Jul-06-2015

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** 



### **Safety Data Sheet**

Revision Number 0

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

**Product identifier** 

Product name POTASSIUM EXTRACTING SOLUTION

Other means of identification

Product Code(s) 5707

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

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

#### **EMERGENCY OVERVIEW**

#### Hazard statements

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

Appearance Clear, colorless

Physical state liquid

Odor vinegar

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

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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.

#### **Unknown Acute Toxicity**

5.71937% of the mixture consists of ingredient(s) of unknown toxicity

Revision Date Jul-06-2015

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Acetic acid	64-19-7	1-3

#### 4. FIRST AID MEASURES

**First Aid Measures** 

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

attendance.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

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

contaminated clothing and wash before reuse. Consult a physician if necessary.

**Inhalation** Remove to fresh air.

**Ingestion** Drink plenty of water. Consult a physician if necessary.

<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.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO2), or foam.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with the skin and the eyes. See section 8.

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

Methods and material for containment and cleaning up

Methods for containment Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in

a chemical waste container for later disposal. Dispose according to federal, state, and local regulations. Dispose according to local regulations, if permitted dissolve in water and rinse

to drain.

**Methods for cleaning up**After cleaning, flush away traces with water.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Handling 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.

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

Do not store in metal containers. Store away from strong acids and oxidizers. **Storage** 

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetic acid	15 ppm STEL	TWA: 10 ppm	IDLH: 50 ppm
64-19-7	TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
			TWA: 25 mg/m <sup>3</sup>
			STEL: 15 ppm
			STEL: 37 mg/m <sup>3</sup>

#### **Appropriate engineering controls**

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure adequate ventilation, especially in confined areas.

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

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

Gloves & Lab Coat. Skin and body protection

Respiratory protection Maintain adequate ventilation.

**Hygiene Measures** Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial

hygiene and safety practice. Wash hands and face before breaks and immediately after

handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liauid

Clear, colorless Odor **Appearance** vinegar

**Property** Values Remarks • Method

> 5 pН

Melting point / freezing point No information available

No information available Boiling point / boiling range Flash point No 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 No information available Vapor density

Specific gravity No data 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

#### **5707 POTASSIUM EXTRACTING SOLUTION**

Dynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

**Other Information** 

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

#### 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.

**Hazardous Reactions** Hazardous polymerization does not occur.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid Excessive heat.

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

Hazardous decomposition products Carbon oxides (COx). Nitrogen oxides (NOx). Sodium oxides.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation None known.

**Eye contact** May cause temporary eye irritation. **Skin contact** Substance may cause slight skin irritation.

Ingestion May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large

amounts.

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetic acid	= 3310 mg/kg (Rat)	= 1060 mg/kg ( Rabbit )	= 11.4 mg/L (Rat) 4 h
64-19-7			

#### Information on toxicological effects

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Chemical name	ACGIH	IARC	NTP	OSHA
Acetic acid	Not Established	Not Established	Not Established	Not Established
64-19-7				

**ATEmix (oral)** 55389 **ATEmix (dermal)** 55287 mg/kg

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Acetic acid	Not Established	75: 96 h Lepomis macrochirus	47: 24 h Daphnia magna mg/L
64-19-7		mg/L LC50 static 79: 96 h	EC50 65: 48 h Daphnia magna
		Pimephales promelas mg/L LC50	mg/L EC50 Static
		static	-

#### Persistence and degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical name Log Pow
-----------------------

Acetic acid	-0.31
64-19-7	

#### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose according to federal, state, and local regulations.

**Contaminated packaging** Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetic acid 64-19-7	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Acetic acid 64-19-7	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Acetic acid	-
64-19-7	

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

#### 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply **ENCS** Complies Complies **IECSC** Does not comply **KECL** Complies **PICCS** Complies AICS

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

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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

Chemical name	SARA 313 - Threshold Values %
Acetic acid 64-19-7	Not Established
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No

No

#### **CWA (Clean Water Act)**

**Reactive Hazard** 

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
Acetic acid 64-19-7	5000 lb	Not Established	Not Established	X

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

	Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
ı	Acetic acid	5000 lb	Not Established	RQ 5000 lb final RQ
	64-19-7			RQ 2270 kg final RQ

#### **US State Regulations**

#### California Proposition 65

Chemical name	California Proposition 65
Acetic acid	Not Established
64-19-7	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Acetic acid	X	X	X
64-19-7			

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

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances	
Acetic acid 64-19-7	Add POISON to label, 16 CFR 1500.129 (>=20%, free or chemically unneutralized)	
16. OTHER INFORMATION		

NFPA_	Health hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards N/A
<u>HMIS</u>	Health hazard 1	Flammability 0	Stability 0	



Prepared by Issuing Date Revision Date Reason for revision

**Disclaimer** 

Regulatory Affairs Department Jun-01-2015 Jul-06-2015 New US GHS format

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**End of Material Safety Data Sheet** 



## **Safety Data Sheet**

Revision Number 0

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

**Product identifier** 

Product name Potassium Indicator Tablet

Other means of identification

Product Code(s) 5708A

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 blue Physical state Tablet Odor None

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

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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.

#### Other Hazards

May be harmful if swallowed

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 4. FIRST AID MEASURES

**First Aid Measures** 

**General advice** Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

irritation persists or develops, contact a physician.

**Skin contact** Wash off with soap and plenty of water removing all contaminated clothes and shoes. If

irritation develops or persists, consult physician.

**Inhalation** Remove to fresh air.

**Ingestion** Drink plenty of water. Consult a physician.

**Self-protection of the first aider**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.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant 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** Avoid contact with eyes, skin and clothing.

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

Methods and material for containment and cleaning up

Methods for containment Sweep up in a manner that does not dispurse dust and shovel into suitable containers for

disposal.

Methods for cleaning up If local regulations permit, dissolve and rinse to drain with excess water. After cleaning,

flush away traces with water.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial

hygiene and safety practice. Do not taste or swallow. Do not eat, drink, or smoke when

using this product.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Protect from moisture, Keep Storage

out of the reach of children.

**Incompatible Products** Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Appropriate engineering controls** 

**Engineering Measures** Showers

> **Evewash stations** Ventilation systems.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Protective gloves.

Respiratory protection None required under normal usage. If exposure limits are exceeded or irritation is

experienced, NIOSH/MSHA approved respiratory protection should be worn.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Tablet Physical state **Appearance** blue

Odor None

**Property** Values Remarks • Method

No information available

Melting point / freezing point No information available Boiling point / boiling range No information available No information available

Flash point

**Evaporation rate** 

Flammability Limit in Air

Flammability (solid, gas) No information available

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 No information available **Explosive properties Oxidizing properties** No information available

Other Information

Softening point No information available No information available Molecular weight

VOC Content (%)No information availableDensityNo information availableBulk densityNo information available

#### 10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoidMoisture. Excessive heat.Incompatible materialsStrong oxidizing agents.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Carbon oxides (COx).

Hydrogen chloride.

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Component Information** 

Information on toxicological effects

ATEmix (oral) 3794

ATEmix (dermal) 14184 mg/kg

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Persistence and degradability

No information available.

**Bioaccumulation/Accumulation** 

No information available.

#### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** Dispose of waste product or used containers according to local regulations. Dispose of

contents/containers in accordance with local regulations.

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

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

<u>IATA</u> Not regulated

IMDG/IMO Not regulated

#### 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Does not comply
DSL/NDSL Does not comply
EINECS/ELINCS Complies

ENCS

ENCS Does not comply
IECSC Does not comply
KECL Does not comply
PICCS Does not comply
AICS Does not comply

#### 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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

#### **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

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

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

# NFPA Health hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards N/A HMIS Health hazard 1 Flammability 0 Stability 0



**Issuing Date** Jun-01-2015 Jul-06-2015 **Revision Date** Reason for revision

New US GHS format

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**End of Material Safety Data Sheet** 



## **Safety Data Sheet**

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** 

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 symptoms persist, call a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Not expected to require first aid measures.

**Ingestion** Drink plenty of water.

**Self-protection of the first aider**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

**Personal precautions**Use personal protective equipment. See section 8. Avoid contact with the skin and the

eyes.

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

Methods and material for containment and cleaning up

**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

Precautions for safe handling

Handling 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.

Conditions for safe storage, including any incompatibilities

Storage 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.

**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.

When workers are facing concentrations above the exposure limit they must use Respiratory protection

appropriate certified respirators.

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or **Hygiene Measures** 

smoke when using this product. Wash hands before breaks and immediately after handling

Not Applicable

the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

**Appearance** Clear, colorless Odor None

**Property Values** Remarks • Method

рH

Melting point / freezing point No information available Boiling point / boiling range 100 °C / 212 °F Flash point Not applicatble

**Evaporation rate** 

Flammability (solid, gas) Not applicable

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

No information available Vapor pressure 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

Not Applicable **Autoignition temperature** 

No information available **Decomposition temperature** Kinematic viscosity No information available **Dynamic viscosity** No information available No information available **Explosive properties** No information available **Oxidizing properties** 

Other Information

No information available Softening point Molecular weight No information available **VOC Content (%)** No information available **Density** 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 Complies DSL/NDSL **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies Complies **KECL** Complies **PICCS 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

## NFPA Health hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards N/A



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**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**