

Safety Data Sheet

Revision Number 0

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

Product identifier

Product name pH Phenol Red ColorQ TesTabs

Other means of identification

Product Code(s) 3880A

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 1910.122)

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

EMERGENCY OVERVIEW

Appearance Peach Physical state solid Tablet Odor Odorless

Other Hazards

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

Unknown Acute Toxicity

3.1% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Phenol red	143-74-8	0.1
Excipient	-	15-20
Potassium chloride	7447-40-7	75-80

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5074p, and may be disclosed only in a medical emergency

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 If symptoms persist, call a physician. Wash off immediately with plenty of water for at least

15 minutes. Take off contaminated clothing and wash before reuse.

Inhalation Not an expected route of exposure.

Ingestion Drink plenty of water. Clean mouth with 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.

Notes to Physician Treat symptomatically.

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 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.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

disposal. 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. If local regulations permit, rinse to drain with

excess 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

direct sunlight. Protect from moisture. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phenol red 143-74-8	-	-	Not Established
Excipient	-	-	Not Established
Potassium chloride 7447-40-7	-	-	Not Established

Appropriate engineering controls

Engineering Measures None under normal use conditions.

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 None required under normal usage.

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 solid Tablet
Appearance Peach

AppearancePeachOdorOdorless

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

pH 7

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 data available

Specific gravity
Water solubility
Soluble in water
No information available

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

Other Information

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

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous Reactions Hazardous polymerization does not occur.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Exposure to light. Excessive heat.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products None under normal use.

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
Phenol red 143-74-8	Not Established	Not Established	Not Established
Excipient	> 10 g/kg(Rat)	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
Phenol red 143-74-8	-	Not Established	Not Established	-
Excipient	-	Not Established	Not Established	-
Potassium chloride 7447-40-7	-	Not Established	Not Established	-

ATEmix (oral) 3140 mg/kg

Oral LD50

Dermal LD50 No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 21.9 % 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)
Phenol red	Not Established	Not Established	Not Established
143-74-8			
Excipient	Not Established	Not Established	Not Established
Potassium chloride	2500: 72 h Desmodesmus	750 - 1020: 96 h Pimephales	825: 48 h Daphnia magna mg/L
7447-40-7	subspicatus mg/L EC50	promelas mg/L LC50 static 1060:	EC50 83: 48 h Daphnia magna
		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
Phenol red 143-74-8	Not Established
Excipient	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
Phenol red 143-74-8	Not Established	-	Not Established	Not Established
Excipient	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
Phenol red 143-74-8	Not Established	Not Established	Not Established	Not Established
Excipient	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
Phenol red 143-74-8	-
Excipient	-
Potassium chloride 7447-40-7	-

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Complies **DSL/NDSL EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC** Complies **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

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 %
Phenol red 143-74-8	Not Established
Excipient	Not Established
Potassium chloride 7447-40-7	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
Phenol red 143-74-8	Not Established	Not Established	Not Established	Not Established
Excipient	Not Established	Not Established	Not Established	Not Established
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	Not Established

<u>CERCLA</u>

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
Phenol red	-	Not Established	=
143-74-8			
Excipient	-	Not Established	-

Potassium chloride 7447-40-7	-	Not Established	-

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	
Phenol red 143-74-8	Not Established	Not Established	Not Established	
Excipient	Not Established	Not Established	Not Established	
Potassium chloride 7447-40-7	Not Established	Not Established	Not Established	
16. OTHER INFORMATION				





Prepared by
Issuing Date
Revision Date
Reason for revision
Regulatory Affairs Department
Apr-01-2015
Apr-28-2015
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 Date Apr-21-2016 Revision Number 0

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

Product identifier

Product name Hardness ColorQ Testabs

Other means of identification

Product Code(s) 3883A

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). Professional

users.

Details of the supplier of the safety data sheet

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

Serious eye damage/eye irritation Category 2

EMERGENCY OVERVIEW

WARNING

Hazard statements

Causes serious eve irritation.



Appearance Lavender Physical state solid Tablet Odor Odorless

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/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. 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 locked up.

Precautionary Statements - Disposal

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

Other Hazards

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

Unknown Acute Toxicity

23% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS No	Weight-%
Aromatic carboxylic acid salt	Proprietary	5
Sodium carbonate*	497-19-8	10-20
Boric acid	10043-35-3	15

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5105p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

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

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. Consult a physician.

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

Ingestion Drink plenty of water. Clean mouth with water. Consult a physician. If gastrointestinal

distress occurs contact physician.

<u>Self-protection of the first aider</u> Use personal protective equipment. See section 8 for more information. 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. FIREFIGHTING 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 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. 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 containmentSweep up in a manner that does not dispurse dust and shovel into suitable containers for

disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to

drain.

Methods for cleaning up Keep in suitable and closed 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 out of the reach

of children. Keep away from direct sunlight.

Incompatible ProductsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aromatic carboxylic acid salt	-	-	Not Established
,			
Sodium carbonate*	-	-	Not Established
497-19-8			
Boric acid	STEL: 6 mg/m3 inhalable fraction	-	Not Established
10043-35-3	TWA: 2 mg/m³ inhalable fraction		

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations

Ventilation systems. 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 Wear latex or nitrile gloves.

Respiratory protection None required under normal usage.

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

Physical state solid Tablet

Appearance Lavender Odor Odorless

(1 tablet in 10mL of water)

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

pH 9.0-9.5

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

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 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 No information available **Oxidizing properties**

Other Information

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

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous Reactions Hazardous polymerization does not occur.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information May be harmful if swallowed

Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Aromatic carboxylic acid salt	= 4070 mg/kg (Rat)	Not Established	Not Established
Sodium carbonate* 497-19-8	= 4090 mg/kg (Rat)	Not Established	= 2300 mg/m³ (Rat) 2 h
Boric acid 10043-35-3	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat) 4 h

Information on toxicological effects

Carcinogenicity	The table bel	ow indicates whether each	i agency has listed any ing	redient as a carcinogen.
Chemical name	ACGIH	IARC	NTP	OSHA

Issuing Date Aug-20-2015 Revision Date Apr-21-2016

Aromatic carboxylic acid salt	Not Established	Not Established	Not Established	Not Established
Sodium carbonate* 497-19-8	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Group 2A	Not Established	Not Established

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

Contains a known or suspected reproductive toxin.

Developmental toxicityNo information available.

Teratogenic May cause harm to the unborn child.

Chronic toxicity None known.

Target organ effects No information available.

ATEmix (oral) 3,349.00 mg/kg **ATEmix (dermal)** 10,267.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Aromatic carboxylic acid salt	Not Established	420 - 558: 96 h Pimephales	650: 48 h Daphnia magna mg/L
		promelas mg/L LC50 flow-through	EC50
		100: 96 h Pimephales promelas	
		mg/L LC50 static	
Sodium carbonate*	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales	265: 48 h Daphnia magna mg/L
497-19-8		promelas mg/L LC50 static 300:	EC50
		96 h Lepomis macrochirus mg/L	
		LC50 static	
Boric acid	Not Established	1020: 72 h Carassius auratus	115 - 153: 48 h Daphnia magna
10043-35-3		mg/L LC50 flow-through	mg/L EC50

Persistence and degradability

No data is available on the product itself.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Aromatic carboxylic acid salt	-2.13
Sodium carbonate* 497-19-8	Not Established
Boric acid 10043-35-3	-0.757

13. DISPOSAL CONSIDERATIONS

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

incinerated, when in compliance with local regulations. Should not be released into the

environment.

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
Aromatic carboxylic acid salt	Not Established	-	Not Established	Not Established
Sodium carbonate*	Not Established	-	Not Established	Not Established
497-19-8				
Boric acid	Not Established	-	Not Established	Not Established
10043-35-3				

Chemical name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes

Issuing Date Aug-20-2015 Revision Date Apr-21-2016

	Organic Compounds			
Aromatic carboxylic acid salt	Not Established	Not Established	Not Established	Not Established
Sodium carbonate* 497-19-8	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status	
Aromatic carboxylic acid salt	-	
Sodium carbonate*	Corrosive	
497-19-8		
Boric acid	Toxic	
10043-35-3		

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** Does not comply **IECSC** Complies **KECL** Does not comply **PICCS** Does not comply **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 %	
Aromatic carboxylic acid salt	Not Established	
Sodium carbonate*	Not Established	

Issuing Date Aug-20-2015

Revision Date Apr-21-2016

497-19-8	
Boric acid	Not Established
10043-35-3	

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 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
Aromatic carboxylic acid salt	Not Established	Not Established	Not Established	Not Established
Sodium carbonate* 497-19-8	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	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
Aromatic carboxylic acid salt	-	Not Established	-
Sodium carbonate* 497-19-8	-	Not Established	-
Boric acid 10043-35-3	-	Not Established	-

US State Regulations

California Proposition 65

Chemical name	California Proposition 65
Aromatic carboxylic acid salt	Not Established
Sodium carbonate* 497-19-8	Not Established
Boric acid 10043-35-3	Not Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Aromatic carboxylic acid salt	Not Established	Not Established	Not Established
Sodium carbonate* 497-19-8	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Х	Not Established	Not Established

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

	16. OTHER INFORMATION				
NFPA	Health hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards N/A	

Health hazard 1 Flammability 0 Stability 0



Prepared by Issuing Date Revision Date Reason for revision Regulatory Affairs Department Aug-20-2015 Apr-21-2016 (M)SDS sections updated 2 3 16

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

OSHA format Revision Number 0

Issuing Date Apr-01-2015 Revision Date Mar-15-2016

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

Product identifier

Product name DPD #1 Tablet

Other means of identification

Product Code(s) 6903A

Recommended use of the chemical and restrictions on use

Recommended UseTest kit reagent for water testing. Industrial (not for food or food contact use). Use as a

laboratory reagent.

Details of the supplier of the safety data sheet

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

EMERGENCY OVERVIEW

Hazard statements

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

Appearance White Physical state solid Tablet 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.

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.

Other Hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Issuing Date Apr-01-2015 Revision Date Mar-15-2016

Chemical name	CAS No	Weight-%
DPD Sulfate	6283-63-2	1
Boric acid	10043-35-3	8

All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5002p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice Immediate medical attention is required. 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. 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 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If

symptoms persist, call a physician.

Ingestion Drink plenty of water. Call a physician or poison control center 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.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent dust cloud. Absorb with earth, sand or other non-combustible material and transfer

to containers for later disposal.

Methods for cleaning up Clean contaminated surface thoroughly. 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. Do not taste or

swallow. Avoid contact with skin, eyes or clothing. 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 out of the reach

of children. Protect from light.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
DPD Sulfate	-	-	Not Established
6283-63-2			
Boric acid	STEL: 6 mg/m3 inhalable fraction	-	Not Established
10043-35-3	TWA: 2 mg/m³ inhalable fraction		

Appropriate engineering controls

None under normal use conditions. **Engineering Measures**

Individual protection measures, such as personal protective equipment

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

Skin and body protection Impervious clothing. Protective gloves. Nitrile rubber.

Respiratory protection No special protective equipment required.

Hygiene Measures Avoid contact with eyes, skin and clothing. Wash hands before breaks and immediately

> after handling the product. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash

before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state solid Tablet

Appearance Odor Odorless White

Values **Property** Remarks • Method

(1 tablet in 10mL of water) pН

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

Flash point Not Applicable

Evaporation rate

No information available Flammability (solid, gas)

Flammability Limit in Air

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

Water solubility Soluble in water

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 propertiesNo information available
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 polymerizationHazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Direct sunlight.

Incompatible materials None known based on information supplied. Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Product Information May cause eye, skin, and respiratory tract irritation.

Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
DPD Sulfate	Not Established	Not Established	Not Established
6283-63-2			
Boric acid	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat) 4 h
10043-35-3		_ • • , ,	- , ,

Information on toxicological effects

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

our onlogomony	1110 (4510 50	The table below indicates which each agoney has noted any ingredient as a careinoger		
Chemical name	ACGIH	IARC	NTP	OSHA
DPD Sulfate	Not Established	Not Established	Not Established	Not Established
6283-63-2				
Boric acid	Not Established	Group 2A	Not Established	Not Established
10043-35-3				

Developmental toxicity No information available.

Teratogenic May cause harm to the unborn child.

Target organ effects No information available.

ATEmix (oral) 2,815.00 mg/kg **ATEmix (dermal)** 18,893.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	1020: 72 h Carassius auratus mg/L LC50 flow-through	115 - 153: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
DPD Sulfate	Not Established
6283-63-2	0.757
Boric acid 10043-35-3	-0.757

13. DISPOSAL CONSIDERATIONS

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

released into the environment.

Contaminated packaging 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
Ī	DPD Sulfate 6283-63-2	Not Established	-	Not Established	Not Established
Ī	Boric acid 10043-35-3	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
DPD Sulfate	-
6283-63-2	
Boric acid	Toxic
10043-35-3	

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

ADR Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** 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 %
DPD Sulfate 6283-63-2	Not Established
Boric acid 10043-35-3	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
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established	Not Established
Boric acid 10043-35-3	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
DPD Sulfate 6283-63-2	-	Not Established	-
Boric acid 10043-35-3	•	Not Established	-

US State Regulations

California Proposition 65

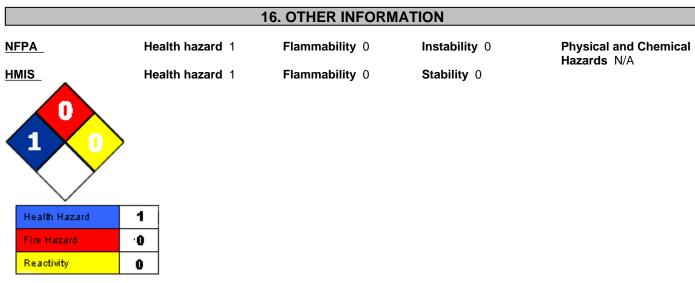
This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65
DPD Sulfate 6283-63-2	Not Established
Boric acid 10043-35-3	Not Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established
Boric acid 10043-35-3	X	Not Established	Not Established

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances



Prepared by Regulatory Affairs Department

Issuing DateApr-01-2015Revision DateMar-15-2016

Revision note Boric acid classification differs between the US and EU. It is not classified in the US but it is in the EU.

Reason for revision (M)SDS sections updated 2 11 12 16

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

OSHA format Revision Number 0

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

Product identifier

Product name Copper TesTabs

Other means of identification

Product Code(s) 3808A

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Laboratory chemicals. Industrial use. 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 numbers

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

2. HAZARDS IDENTIFICATION

Serious eye damage/eye irritation Category 2A

EMERGENCY OVERVIEW

WARNING

Hazard statements

Causes serious eye irritation.



Appearance yellow

Physical state Tablet ~0.1g (100mg)

Odor Odorless

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

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. 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.

Storage:

Store in a well-ventilated place. Keep cool.

Other Hazards

May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.

Unknown Acute Toxicity

5% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS#	Weight-%
Alphatic carboxylic acid	Proprietary	10-15
Carbonate salt	Proprietary	10-20

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5002p, and may be disclosed only in a medical emergency Excipients not listed by name are non-hazardous and proprietary to the manufacturer

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 thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult 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. Call a physician immediately.

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

Ingestion Drink plenty of water. Consult a physician if necessary. Never give anything by mouth to an

unconscious person.

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

spread of contamination.

Notes to Physician Treat symptomatically.

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 Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section

8.

Environmental precautions No special environmental precautions required. 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

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. Avoid contact with skin, eyes or clothing. 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. Protect from sunlight.

Keep away from heat. Protect from moisture. 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
Alphatic carboxylic acid	TWA: 5 mg/m ³	-	Not Established

Carbonate salt	-	-	Not Established

Appropriate engineering controls

Engineering Measures None under normal use conditions. For home use.

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. Rubber gloves. Nitrile rubber.

Respiratory protection None required under normal usage.

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

Physical state Tablet ~0.1g (100mg)

Appearance yellow Odor Odorless

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

pH 6 (1 tablet in 10mL of water)

Melting point / freezing point No information available

Boiling point / boiling range 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

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

Water solubility Soluble in water

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

Stability Stable.

Issuing Date Apr-02-2012

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Not an expected route of exposure.

Eye contact May cause irritation. **Skin contact** May cause irritation.

Ingestion May be harmful if swallowed.

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Alphatic carboxylic acid	> 11000 mg/kg (Rat) = 2210 mg/kg (Rat)	> 200 mg/kg (Rabbit)	> 31 mg/L (Rat) 1 h
Carbonate salt	= 4090 mg/kg (Rat)	Not Established	= 2300 mg/m ³ (Rat) 2 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Alphatic carboxylic acid	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established

Chronic toxicity None known.

ATEmix (oral) 6,885.00 mg/kg **ATEmix (dermal)** 2,157.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 54.8 % 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)
Alphatic carboxylic acid	26.6: 96 h Desmodesmus	150 - 220: 96 h Leuciscus idus	85.7: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50 31.3: 72	mg/L LC50 static 230: 96 h	EC50 88.4: 48 h Daphnia magna
	h Desmodesmus subspicatus	Leuciscus idus mg/L LC50 static	mg/L EC50
	mg/L EC50 35: 96 h	97: 96 h Pimephales promelas	-
	Desmodesmus subspicatus mg/L	mg/L LC50 static	
	EC50 66: 72 h Desmodesmus		
	subspicatus mg/L EC50		
Carbonate salt	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales	265: 48 h Daphnia magna mg/L
		promelas mg/L LC50 static 300:	EC50
		96 h Lepomis macrochirus mg/L	
		LC50 static	

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Alphatic carboxylic acid	0.081 -0.575 - 0.081
Carbonate salt	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
Alphatic carboxylic acid	Not Established	-	Not Established	Not Established
Carbonate salt	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Alphatic carboxylic acid	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Alphatic carboxylic acid	-
Carbonate salt	Corrosive

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

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

Hazards N/A

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 %
Alphatic carboxylic acid	Not Established
Carbonate salt	Not Established

SARA 311/312 Hazard Categories

Acute health hazard

Chronic Health Hazard

No
Fire hazard

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
Alphatic carboxylic acid	5000 lb	Not Established	Not Established	X
Carbonate salt	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
Alphatic carboxylic acid	5000 lb	Not Established	RQ 5000 lb final RQ RQ 2270 kg final RQ
Carbonate salt	-	Not Established	-

US State Regulations

This product does not contain any Proposition 65 chemicals.

This product does not contain any 1 reposition of chemicals.	
Chemical name	California Proposition 65
Alphatic carboxylic acid	Not Established
Carbonate salt	Not Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Alphatic carboxylic acid	X	X	X
Carbonate salt	Not Established	Not Established	Not Established

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical

Health hazard 1



Prepared by Issuing Date Disclaimer

Regulatory Affairs Department Apr-02-2012

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

OSHA format Revision Number 0

Issuing Date Apr-02-2012 Revision Date Feb-23-2016

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

Product identifier

Product name COPPER TABLETS

Other means of identification

Product Code(s) WL-3808

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Laboratory chemicals. Industrial use. 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

Serious eye damage/eye irritation Category 2A

EMERGENCY OVERVIEW

WARNING

Hazard statements

Causes serious eye irritation.



Appearance yellow

Physical state Tablet ~0.1g (100mg)

Odor Odorless

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

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. 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 in contact with skin Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

5% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS No	Weight-%
Alphatic carboxylic acid	Proprietary	10-15
Carbonate salt	Proprietary	10-20
Potassium salt	Proprietary	10-20

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5002p, and may be disclosed only in a medical emergency Excipients not listed by name are non-hazardous and proprietary to the manufacturer

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 thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult 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. Call a physician immediately.

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

Ingestion Drink plenty of water. Consult a physician if necessary. Never give anything by mouth to an

unconscious person.

<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.

Notes to Physician Treat symptomatically.

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 Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section

8.

Environmental precautions No special environmental precautions required. 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 upAfter 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. Avoid contact with skin, eyes or clothing. 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. Protect from sunlight.

Keep away from heat. Protect from moisture. 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
Alphatic carboxylic acid	TWA: 5 mg/m ³	-	Not Established
	_		
Carbonate salt	-	-	Not Established
Potassium salt	-	-	Not Established

Appropriate engineering controls

Engineering Measures None under normal use conditions. For home use.

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. Rubber gloves. Nitrile rubber.

Respiratory protection None required under normal usage.

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

Physical state Tablet ~0.1g (100mg)

Appearance yellow Odor Odorless

Property Values Remarks • Method

(1 tablet in 10mL of water)

No information available

No information available

No information available

Not Applicable

pH 6

Melting point / freezing point

Boiling point / boiling range

Boiling point / boiling range Flash point

Evaporation rate

Flammability (solid, gas)

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 information available
Soluble in water

No information available Solubility in other solvents 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 polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials Strong oxidizing agents. Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Not an expected route of exposure.

Eye contact May cause irritation. **Skin contact** May cause irritation.

Ingestion May be harmful if swallowed.

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Alphatic carboxylic acid	> 11000 mg/kg (Rat) = 2210	> 200 mg/kg (Rabbit)	> 31 mg/L (Rat) 1 h
	mg/kg (Rat)		
Carbonate salt	= 4090 mg/kg (Rat)	Not Established	= 2300 mg/m³ (Rat) 2 h
Potassium salt	= 2600 mg/kg (Rat)	Not Established	Not Established

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Alphatic carboxylic acid	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established

Issuing Date Apr-02-2012

Revision Date Feb-23-2016

Potassium salt	Not Established	Not Established	Not Established	Not Established

Chronic toxicity None known.

ATEmix (oral) 6,885.00 mg/kg **ATEmix (dermal)** 2,157.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Alphatic carboxylic acid	26.6: 96 h Desmodesmus	150 - 220: 96 h Leuciscus idus	85.7: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50 31.3: 72	mg/L LC50 static 230: 96 h	EC50 88.4: 48 h Daphnia magna
	h Desmodesmus subspicatus	Leuciscus idus mg/L LC50 static	mg/L EC50
	mg/L EC50 35: 96 h	97: 96 h Pimephales promelas	-
	Desmodesmus subspicatus mg/L	mg/L LC50 static	
	EC50 66: 72 h Desmodesmus		
	subspicatus mg/L EC50		
Carbonate salt	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales	265: 48 h Daphnia magna mg/L
		promelas mg/L LC50 static 300:	EC50
		96 h Lepomis macrochirus mg/L	
		LC50 static	
Potassium salt	2500: 72 h Desmodesmus	750 - 1020: 96 h Pimephales	825: 48 h Daphnia magna mg/L
	subspicatus mg/L EC50	promelas mg/L LC50 static 1060:	EC50 83: 48 h Daphnia magna
		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
Alphatic carboxylic acid	0.081 -0.575 - 0.081
Carbonate salt	Not Established
Potassium salt	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
Alphatic carboxylic acid	Not Established	-	Not Established	Not Established
Carbonate salt	Not Established	-	Not Established	Not Established
Potassium salt	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Alphatic carboxylic acid	Not Established	Not Established	Not Established	Not Established
Carbonate salt	Not Established	Not Established	Not Established	Not Established
Potassium salt	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Alphatic carboxylic acid	-
Carbonate salt	Corrosive
Potassium salt	-

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

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

KECLDoes not complyPICCSDoes not complyAICSDoes 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 %
Alphatic carboxylic acid	Not Established
Carbonate salt	Not Established
Potassium salt	Not Established

SARA 311/312 Hazard Categories

ittri o i i/o i z i i azai a oatogorico	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances
Alphatic carboxylic acid	5000 lb	Not Established	Not Established	Х
Carbonate salt	Not Established	Not Established	Not Established	Not Established
Potassium salt	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
Alphatic carboxylic acid	5000 lb	Not Established	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Carbonate salt	-	Not Established	-
Potassium salt	-	Not Established	-

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical name	California Proposition 65
Alphatic carboxylic acid	Not Established
Carbonate salt	Not Established
Potassium salt	Not Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	
Alphatic carboxylic acid	X	X	X	
Carbonate salt	Not Established	Not Established	Not Established	
Potassium salt	Not Established	Not Established	Not Established	

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

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

Health Hazard	1
Fire Hazard	.0
Reactivity	0

Prepared by Issuing Date Revision Date Disclaimer Regulatory Affairs Department

Apr-02-2012 Feb-23-2016

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 Alkalinity ColorQ TesTabs

Other means of identification

Product Code(s) 3882A

Recommended use of the chemical and restrictions on use

Recommended UseUse as a laboratory reagent. 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
Chastortown MD 31630 L

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 1910.122)

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

EMERGENCY OVERVIEW			
Appearance Tan	Physical state Tablet	Odor Odorless	

Other Hazards

May be harmful if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium bisulfate	7681-38-1	<1
Polymer resin	-	1-10
Excipient	-	10-20
Chloride salt	-	>70

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey

Trade Secret protection law, assigned the NJTSRN#80100291-5104p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

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

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a

physician.

Skin contact Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

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

Ingestion Drink plenty of water. If gastrointestinal distress occurs contact physician.

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 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.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Dispose of contents/containers in accordance with 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. Do not taste or

swallow. Avoid contact with skin and eyes. 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.

Incompatible ProductsNo materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium bisulfate 7681-38-1	-	-	Not Established
Polymer resin	-	-	Not Established
Excipient	-	-	Not Established
Chloride salt	-	-	Not Established

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).

Incidental contact/splash protection:. Gloves & Lab Coat. Skin and body protection

None required under normal usage. Respiratory protection

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

eyes, skin and clothing. 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 Tablet Tan

Appearance Odor Odorless

Remarks • Method **Property** Values

No information available

No information available

No information available

No information available

3.5

Melting point / freezing point

Boiling point / boiling range Flash point

Evaporation rate

Flammability (solid, gas)

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 Soluble in water

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 No information available 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.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Moisture.

Incompatible materials No materials to be especially mentioned.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Information on likely routes of exposure

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium bisulfate 7681-38-1	= 2490 mg/kg (Rat)	Not Established	Not Established
Polymer resin	> 3200 mg/kg (Rat)	Not Established	Not Established
Excipient	> 10 g/kg(Rat)	Not Established	Not Established
Chloride salt	= 3 g/kg (Rat)	> 10 g/kg(Rabbit)	> 42 g/m³ (Rat) 1 h

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium bisulfate 7681-38-1	-	Not Established	Not Established	-
Polymer resin	-	Not Established	Not Established	-
Excipient	-	Not Established	Not Established	-
Chloride salt	-	Not Established	Not Established	-

Chronic toxicity Product does not present a chronic toxicity hazard based on known or supplied information.

3479 mg/kg ATEmix (oral) **ATEmix (dermal)** 13477 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 24.933 % 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 bisulfate 7681-38-1	Not Established	Not Established	190: 48 h Daphnia magna mg/L EC50
Polymer resin	Not Established	Not Established	Not Established
Excipient	Not Established	Not Established	Not Established
Chloride salt	Not Established	4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 6020 - 7070: 96 h Pimephales promelas mg/L LC50 static 6420 - 6700: 96 h	magna mg/L EC50 Static 1000: 48 h Daphnia magna mg/L EC50

Pimephales promelas mg/L LC50 static 12946: 96 h Lepomis macrochirus mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static	

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Sodium bisulfate 7681-38-1	Not Established
Polymer resin	Not Established
Excipient	Not Established
Chloride salt	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
Sodium bisulfate 7681-38-1	Not Established	-	Not Established	Not Established
Polymer resin	Not Established	-	Not Established	Not Established
Excipient	Not Established	-	Not Established	Not Established
Chloride salt	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 bisulfate 7681-38-1	Not Established	Not Established	Not Established	Not Established
Polymer resin	Not Established	Not Established	Not Established	Not Established
Excipient	Not Established	Not Established	Not Established	Not Established
Chloride salt	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Sodium bisulfate 7681-38-1	-
Polymer resin	-
Excipient	-
Chloride salt	-

14. TRANSPORT INFORMATION

DOT Not regulated

IATANot regulatedIMDG/IMONot regulated

15. REGULATORY INFORMATION

International Inventories

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

Chemical name	SARA 313 - Threshold Values %
Sodium bisulfate 7681-38-1	Not Established
Polymer resin	Not Established
Excipient	Not Established
Chloride salt	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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium bisulfate 7681-38-1	Not Established	Not Established	Not Established	Not Established
Polymer resin	Not Established	Not Established	Not Established	Not Established
Excipient	Not Established	Not Established	Not Established	Not Established

Chloride salt	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
Sodium bisulfate 7681-38-1	-	Not Established	-
Polymer resin	-	Not Established	-
Excipient	-	Not Established	-
Chloride salt	-	Not Established	-

US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	
Sodium bisulfate 7681-38-1	Not Established	Not Established	Not Established	
Polymer resin	Not Established	Not Established	Not Established	
Excipient	Not Established	Not Established	Not Established	
Chloride salt	Not Established	Not Established	Not Established	
	16. OTHER INFORMATION			

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

HMIS Health hazard 1 Flammability 0 Stability 0



Prepared by Regulatory Affairs Department

Issuing DateApr-28-2015Revision DateApr-28-2015Reason for revisionNew 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