

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product identifier****Product name** Wide Range pH Tablets**Other means of identification****Product Code(s)** 6459A**Recommended use of the chemical and restrictions on use****Recommended Use** Use 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
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**OSHA Regulatory Status**

This product 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** Tablet **Physical state** Solid **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.

Storage:

Store in a well-ventilated place. Keep cool.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

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

| Chemical name | CAS No. | Weight-% |
|---------------|---------|----------|
|---------------|---------|----------|

| | | |
|------------------|-----------|------|
| Methyl red | 493-52-7 | <0.1 |
| Cresol red | 1733-12-6 | <0.1 |
| Bromothymol blue | 76-59-5 | <0.1 |
| Excipients | 0-0-0000 | >99 |

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 | No hazards which require special first aid measures. Do not get in eyes, on skin, or on clothing. 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. Not an expected route of exposure. |
| Ingestion | Do NOT induce vomiting. Drink plenty of water. Consult a physician. |
| <u>Self-protection of the first aider</u> | 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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, 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. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |

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 | Sweep up and shovel into suitable containers for disposal. 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

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Protect from moisture. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-----------------------------|-----------|----------|-----------------|
| Methyl red 493-52-7 | *- | *- | Not Established |
| Cresol red 1733-12-6 | *- | *- | Not Established |
| Bromothymol blue 76-59-5 | *- | *- | Not Established |
| Excipients 0-0-0000 | *- | *- | 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).

Skin and body protection Protective gloves.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|------------|-------------|------|
| Physical state | Solid | Odor | None |
| Appearance | Tablet | | |
| Color | brown-gray | | |

| <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: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Specific gravity | No information available | |
| Water solubility | No information available | |
| Solubility in other solvents | No information available | |

| | |
|----------------------------------|--------------------------|
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Dynamic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

Other Information

| | |
|-------------------------|--------------------------|
| Softening point | 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 | None known based on information supplied. |
| Hazardous decomposition products | None under normal use. |

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 identification**

| Chemical name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|-----------------------------|-----------------|-----------------|-----------------|
| Methyl red 493-52-7 | Not Established | Not Established | Not Established |
| Cresol red 1733-12-6 | Not Established | Not Established | Not Established |
| Bromothymol blue 76-59-5 | Not Established | Not Established | Not Established |
| Excipients 0-0-0000 | Not Established | Not Established | Not Established |

Information on toxicological effects

Carcinogenicity Contains no ingredient listed as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| Methyl red 493-52-7 | Not Established | Group 3 | Not Established | Not Established |
| Cresol red 1733-12-6 | Not Established | Not Established | Not Established | Not Established |
| Bromothymol blue 76-59-5 | Not Established | Not Established | Not Established | Not Established |
| Excipients 0-0-0000 | Not Established | Not Established | Not Established | Not Established |

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

12. ECOLOGICAL INFORMATION**Ecotoxicity**

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

| Chemical name | Toxicity to Algae | Toxicity to Fish | Daphnia Magna (Water Flea) |
|-----------------------------|-------------------|------------------|----------------------------|
| Methyl red 493-52-7 | Not Established | Not Established | Not Established |
| Cresol red 1733-12-6 | Not Established | Not Established | Not Established |
| Bromothymol blue 76-59-5 | Not Established | Not Established | Not Established |
| Excipients 0-0-0000 | Not Established | Not Established | Not Established |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|-----------------------------|-----------------|
| Methyl red 493-52-7 | Not Established |
| Cresol red 1733-12-6 | Not Established |
| Bromothymol blue 76-59-5 | Not Established |
| Excipients 0-0-0000 | Not Established |

13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

Contaminated packaging

Do not reuse empty containers.

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|-----------------------------|-----------------|--------------------------|------------------------|------------------------|
| Methyl red 493-52-7 | Not Established | - | Not Established | Not Established |
| Cresol red 1733-12-6 | Not Established | - | Not Established | Not Established |
| Bromothymol blue 76-59-5 | Not Established | - | Not Established | Not Established |
| Excipients 0-0-0000 | Not Established | - | Not Established | Not Established |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|-----------------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Methyl red 493-52-7 | Not Established | Not Established | Not Established | Not Established |
| Cresol red 1733-12-6 | Not Established | Not Established | Not Established | Not Established |
| Bromothymol blue 76-59-5 | Not Established | Not Established | Not Established | Not Established |
| Excipients 0-0-0000 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|-----------------------------|-----------------------------------|
| Methyl red 493-52-7 | *_ |
| Cresol red 1733-12-6 | *_ |
| Bromothymol blue 76-59-5 | *_ |
| Excipients 0-0-0000 | *_ |

14. TRANSPORT INFORMATION

| | |
|-----------------|---------------|
| <u>DOT</u> | Not regulated |
| <u>TDG</u> | Not regulated |
| <u>MEX</u> | Not regulated |
| <u>ICAO</u> | Not regulated |
| <u>IATA</u> | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |
| <u>RID</u> | Not regulated |
| <u>ADR</u> | Not regulated |
| <u>ADN</u> | Not regulated |

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| 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

| Chemical name | SARA 313 - Threshold Values % |
|-----------------------------|-------------------------------|
| Methyl red 493-52-7 | Not Established |
| Cresol red 1733-12-6 | Not Established |
| Bromothymol blue 76-59-5 | Not Established |
| Excipients 0-0-0000 | 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 |
|-----------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Methyl red 493-52-7 | Not Established | Not Established | Not Established | Not Established |
| Cresol red 1733-12-6 | Not Established | Not Established | Not Established | Not Established |
| Bromothymol blue 76-59-5 | Not Established | Not Established | Not Established | Not Established |
| Excipients 0-0-0000 | 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 |
|-----------------------------|--------------------------|-----------------|----|
| Methyl red 493-52-7 | *- | Not Established | - |
| Cresol red 1733-12-6 | *- | Not Established | - |
| Bromothymol blue 76-59-5 | *- | Not Established | - |
| Excipients 0-0-0000 | *- | Not Established | - |

US State Regulations

This product does not contain any Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|-----------------------------|---------------------------|
| Methyl red 493-52-7 | Not Established |
| Cresol red 1733-12-6 | Not Established |
| Bromothymol blue 76-59-5 | Not Established |
| Excipients 0-0-0000 | Not Established |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|-----------------|-----------------|-----------------|
| Methyl red 493-52-7 | Not Established | Not Established | Not Established |
| Cresol red 1733-12-6 | Not Established | Not Established | Not Established |
| Bromothymol blue 76-59-5 | Not Established | Not Established | Not Established |
| Excipients 0-0-0000 | Not Established | Not Established | Not Established |

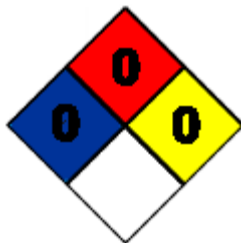
CPSC (Consumer Product Safety Commission) - Specially Regulated Substances**16. OTHER INFORMATION****NFPA**

Health hazard 0

Flammability 0

Instability 0

Physical and Chemical
Hazards N/A

**Issuing Date**

Feb-24-2017

Revision Date

Jan-11-2016

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