

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

Product identifier

Product name Potassium Reagent B Tablets

Other means of identification

Product Code(s) 5161

UN-No 1500

Recommended use of the chemical and restrictions on use

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

Details of the supplier of the safety data sheet

Manufacturer Address

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

Emergency telephone number

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

2. HAZARDS IDENTIFICATION

| | |
|-----------------------|-------------|
| Acute toxicity - Oral | Category 3 |
| Carcinogenicity | Category 1B |

EMERGENCY OVERVIEW

DANGER

Hazard statements

Toxic if swallowed. May cause cancer.



Appearance Gold

Physical state Tablet

Odor None

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

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: Immediately call a poison center or doctor/physician. Rinse mouth.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

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

Other Hazards

Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

Unknown Acute Toxicity

29% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

| Chemical name | CAS No | Weight-% |
|--------------------------------|------------|----------|
| Trisodium hexanitritocobaltate | 13600-98-1 | 29 |
| Sodium nitrite | 7632-00-0 | 60 |

4. FIRST AID MEASURES**First Aid Measures**

| | |
|--|---|
| General advice | Show this safety data sheet to the doctor in attendance. Keep out of reach of children. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician. |
| Skin contact | Wash off with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician. |
| Inhalation | Remove to fresh air. Consult a physician. |
| Ingestion | Induce vomiting as directed by medical personnel. Drink plenty of water. Call a physician or poison control center immediately. Rinse mouth. |
| <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**

Water spray. CO₂, alcohol-resistant foam or water spray.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

| | |
|-----------------------------|--|
| Personal precautions | Use personal protective equipment. Avoid dust formation. Avoid contact with eyes, skin and clothing. |
|-----------------------------|--|

Methods and material for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for containment | Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal. |
| Methods for cleaning up | Keep in suitable and closed containers for disposal. Prevent product and washings from entering drains, sewers or surface water due to high toxicity to aquatic organisms. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|-----------------|--|
| Handling | Avoid contact with eyes, skin and clothing. Avoid dust formation in confined areas. Avoid breathing dust. Do not taste or swallow. Handle in accordance with good industrial hygiene and safety practice. 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 and sources of ignition. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Keep out of the reach of children. |
| Incompatible Products | Strong reducing agents. Organic material. Strong acids. Finely powdered metals. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|--------------------------------|----------|-----------------|
| Trisodium hexanitritocobaltate 13600-98-1 | TWA: 0.02 mg/m ³ Co | - | Not Established |
| Sodium nitrite 7632-00-0 | - | - | 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 | Gloves & Lab Coat. |
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. |
| Hygiene Measures | Do not eat, drink or smoke when using this product. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---------------------------------------|--------------------------|-----------------------------|------|
| Physical state | Tablet | Odor | None |
| Appearance | Gold | | |
| Property | Values | Remarks • Method | |
| 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 | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | No information available |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Specific gravity | No information available |
| Water solubility | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Dynamic viscosity | No information available |
| 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 Reactions | Substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Contact with oxidizable substances may cause extremely violent combustion. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Moisture. Combustible materials. Excessive heat. |
| Incompatible materials | Strong reducing agents. Organic material. Strong acids. Finely powdered metals. |
| Hazardous decomposition products | Nitrogen oxides (NOx). Sodium oxides. May produce the following when heated to decomposition: Toxic metal fumes. |

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Component identification**

| Chemical name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|--|--------------------|-----------------|------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Not Established | Not Established | Not Established |
| Sodium nitrite 7632-00-0 | = 85 mg/kg (Rat) | Not Established | = 5.5 mg/L (Rat) 4 h |

Information on toxicological effects

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|-----------------|----------|-----------------|------|
| Trisodium hexanitritocobaltate 13600-98-1 | A3 | Group 2B | Not Established | X |
| Sodium nitrite 7632-00-0 | Not Established | Group 2A | Not Established | X |

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

ATEmix (oral) 100.00

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 29 % 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) |
|--|-------------------|---|----------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Not Established | Not Established | Not Established |
| Sodium nitrite 7632-00-0 | Not Established | 0.092 - 0.13: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.4 - 0.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.65 - 1: 96 h Oncorhynchus mykiss mg/L LC50 static 0.19: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.3: 96 h Pimephales promelas mg/L LC50 flow-through 20: 96 h Pimephales promelas mg/L LC50 static | Not Established |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|--|-----------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Not Established |
| Sodium nitrite 7632-00-0 | -3.7 |

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste product or used containers according to local regulations. Dispose of contents/containers in accordance with local regulations.

Contaminated packaging

Do not reuse empty containers.

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|--|-----------------|--------------------------|------------------------|------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Not Established | - | Not Established | Not Established |
| Sodium nitrite 7632-00-0 | Not Established | - | Not Established | Not Established |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|--|--------------------------------------|------------------------|------------------------|------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Not Established | Not Established | Not Established | Not Established |
| Sodium nitrite 7632-00-0 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|--|-----------------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Toxic |
| Sodium nitrite 7632-00-0 | Toxic Ignitable Reactive |

14. TRANSPORT INFORMATION**DOT**

| | |
|----------------------|----------------|
| Proper shipping name | SODIUM NITRITE |
| UN-No | 1500 |
| Hazard Class | 5.1 |
| Subsidiary class | 6.1 |
| Packing group | III |

IATA

| | |
|----------------------|----------------|
| Proper shipping name | SODIUM NITRITE |
| UN-No | 1500 |
| Hazard Class | 5.1 |
| Subsidiary class | 6.1 |
| Packing group | III |

IMDG/IMO

| | |
|----------------------|----------------|
| Proper shipping name | SODIUM NITRITE |
| UN-No | 1500 |
| Hazard Class | 5.1 |
| Subsidiary class | 6.1 |
| Packing group | III |

15. REGULATORY INFORMATION**International Inventories**

| | |
|---------------|-----------------|
| TSCA | Does not comply |
| DSL/NDL | Does not comply |
| EINECS/ELINCS | Complies |
| ENCS | Does not comply |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

Legend:

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

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | SARA 313 - Threshold Values % |
|--|-------------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | 0.1 |
| Sodium nitrite 7632-00-0 | 1.0 |

SARA 311/312 Hazard Categories

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

CWA (Clean Water Act)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--|-----------------------------|------------------------|---------------------------|----------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Not Established | Not Established | Not Established | Not Established |
| Sodium nitrite 7632-00-0 | 100 lb | Not Established | Not Established | X |

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 |
|--|--------------------------|-----------------|---|
| Trisodium hexanitritocobaltate 13600-98-1 | - | Not Established | - |
| Sodium nitrite 7632-00-0 | 100 lb | Not Established | RQ 100 lb final RQ RQ 45.4 kg final RQ |

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

| Chemical name | California Proposition 65 |
|--|---------------------------|
| Trisodium hexanitritocobaltate 13600-98-1 | Not Established |
| Sodium nitrite 7632-00-0 | Not Established |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|-----------------|--------------|
| Trisodium hexanitritocobaltate 13600-98-1 | X | Not Established | X |
| Sodium nitrite 7632-00-0 | X | X | X |

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

Health hazard 2

Flammability 0

Instability 0

Physical and Chemical
Hazards OX

Health hazard 2

Stability 2



| | |
|---------------|---|
| Health Hazard | 2 |
| Fire Hazard | 0 |
| Reactivity | 2 |

Prepared by

Regulatory Affairs Department

Issuing Date

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Reason for revision

Update to Format

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet