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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

### Product identifier

| Product No.: | Product name:             | Common name(s), synonym(s) |
|--------------|---------------------------|----------------------------|
| 212513       | TB Potassium Permanganate | No data available          |

### Recommended restrictions

**Recommended use:** Laboratory Chemicals  
**Restrictions on use:** None known.

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152  
USA

Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

Toxic to reproduction Category 2

#### Environmental Hazards

Acute hazards to the aquatic environment Category 2

Chronic hazards to the aquatic environment Category 3

### Label Elements

#### Hazard Symbol:

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|   |   |
|---|---|
| <b>Signal Word:</b>   | Warning   |
| <b>Hazard Statement:</b>  | H361: Suspected of damaging fertility or the unborn child.<br>H401: Toxic to aquatic life.<br>H412: Harmful to aquatic life with long lasting effects.  |
| <b>Precautionary Statements</b>                                 |   |
| <b>Prevention:</b>  | P201: Obtain special instructions before use.<br>P202: Do not handle until all safety precautions have been read and understood.<br>P280: Wear protective gloves/protective clothing/eye protection/face protection.<br>P273: Avoid release to the environment. |
| <b>Response:</b>  | P308+P313: IF exposed or concerned: Get medical advice/attention.   |
| <b>Storage:</b>   | P405: Store locked up.<br>P235: Keep cool.  |
| <b>Disposal:</b>  | P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.  |
| <b>Other hazards which do not result in GHS classification:</b> | None.   |

### 3. Composition/information on ingredients



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## Mixtures

| Chemical Identity   | Common name and synonyms | CAS number | Content in percent (%) <sup>*</sup> |
|---|--------------------------|------------|-------------------------------------|
| Permanganic acid (HMnO <sub>4</sub> ), potassium salt (1:1) | No data available.       | 7722-64-7  | 0.5%                                |

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

### Description of necessary first-aid measures

|  |   |
|--|---|
| <b>General information:</b>  | Get immediate medical advice/attention. If medical advice is needed, have product container or label at hand.   |
| <b>Inhalation:</b>   | Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.   |
| <b>Skin Contact:</b>   | Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. |
| <b>Eye contact:</b>  | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.   |
| <b>Ingestion:</b>  | If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.  |
| <b>Personal Protection for First-aid Responders:</b>               | No data available.  |
| <b>Most important symptoms and effects, both acute and delayed</b> |   |
| <b>Symptoms:</b>   | Symptoms may be delayed.  |
| <b>Hazards:</b>  | May damage fertility or the unborn child.   |

### Indication of immediate medical attention and special treatment needed

|                   |  |
|-------------------|--|
| <b>Treatment:</b> | IF exposed or concerned: Get medical advice/attention. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. |
|-------------------|--|

## 5. Fire-fighting measures



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|  |  |
|--|--|
| <b>General Fire Hazards:</b>   | Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.          |
| <b>Suitable (and unsuitable) extinguishing media</b>                 |  |
| <b>Suitable extinguishing media:</b>                                 | Water spray, fog, CO2, dry chemical, or alcohol resistant foam.  |
| <b>Unsuitable extinguishing media:</b>                               | Avoid water in straight hose stream; will scatter and spread fire.   |
| <b>Special hazards arising from the substance or mixture:</b>        | Fire or excessive heat may produce hazardous decomposition products.   |
| <b>Special protective equipment and precautions for firefighters</b> |  |
| <b>Special fire fighting procedures:</b>                             | No unusual fire or explosion hazards noted.  |
| <b>Special protective equipment for fire-fighters:</b>               | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |

## 6. Accidental release measures

|   |   |
|---|---|
| <b>Personal precautions, protective equipment and emergency procedures:</b>               | Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.  |
| <b>Accidental release measures: Methods and material for containment and cleaning up:</b> | No data available.<br>Stop leak if possible without any risk. Prevent runoff from entering drains, sewers, or streams. Absorb spillage with suitable absorbent material. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS. |
| <b>Environmental Precautions:</b>   | Do not release into the environment. Environmental manager must be informed of all major spillages.   |

## 7. Handling and storage

### Handling

|   |  |
|---|--|
| <b>Technical measures (e.g. Local and general ventilation):</b> | Adequate ventilation should be provided whenever the material is heated or mists are generated.  |
| <b>Safe handling advice:</b>                                    | Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes and avoid contact with skin and clothing. Wash promptly with soap and water if skin becomes contaminated. |



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When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance measures:** No data available.

**Storage**

**Safe storage conditions:** Store in tightly closed original container in a dry, cool and well-ventilated place.

**Safe packaging materials:** No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

| Chemical Identity   | Type    | Exposure Limit Values | Source   |
|---|---------|-----------------------|--|
| Permanganic acid (HMnO4), potassium salt (1:1) - Inhalable fraction. - as Mn  | TWA     | 0.1 mg/m3             | US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended             |
| Permanganic acid (HMnO4), potassium salt (1:1) - Respirable fraction. - as Mn | TWA     | 0.02 mg/m3            | US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended             |
| Permanganic acid (HMnO4), potassium salt (1:1) - as Mn                        | Ceiling | 5 mg/m3               | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended  |
|   | Ceiling | 5 mg/m3               | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended                     |
| Permanganic acid (HMnO4), potassium salt (1:1) - Particulate.                 | AN ESL  | 2 µg/m3               | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended  |
|   | ST ESL  | 20 µg/m3              | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended  |
| Permanganic acid (HMnO4), potassium salt (1:1) - as Mn                        | TWA PEL | 0.2 mg/m3             | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended |
| Permanganic acid (HMnO4), potassium salt (1:1) - Inhalable fraction. - as Mn  | TWA     | 0.1 mg/m3             | US. ACGIH Threshold Limit Values, as amended   |
| Permanganic acid (HMnO4), potassium salt (1:1) - Respirable fraction. - as Mn | TWA     | 0.02 mg/m3            | US. ACGIH Threshold Limit Values, as amended   |
| Permanganic acid (HMnO4), potassium salt (1:1) - Fume. - as Mn                | REL     | 1 mg/m3               | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                                      |
|   | STEL    | 3 mg/m3               | US. NIOSH: Pocket Guide to Chemical Hazards, as amended                                      |
| Permanganic acid (HMnO4), potassium salt (1:1)                                | IDLH    | 500 mg/m3             | US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended                 |
| Permanganic acid (HMnO4),   | Ceiling | 5 mg/m3               | US. OSHA Table Z-1 Limits for Air  |



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|                              |  |   |
|------------------------------|--|---|
| potassium salt (1:1) - as Mn |  | Contaminants (29 CFR 1910.1000), as amended |
|------------------------------|--|---|

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

**Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**Appropriate Engineering Controls** Adequate ventilation should be provided whenever the material is heated or mists are generated.

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

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** Material: Use suitable protective gloves if risk of skin contact.

**Skin and Body Protection:** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Hygiene measures:** Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin. Do not breathe dust/fume/gas/mist/vapors/spray.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Appearance**

- Physical state:** liquid
- Form:** Liquid
- Color:** According to product specification.
- Odor:** Characteristic
- Odor Threshold:** No data available.
- Freezing point:** No data available.
- Boiling Point:** No data available.
- Flammability:** No data available.

**Upper/lower limit on flammability or explosive limits**



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|   |                    |
|---|--------------------|
| <b>Explosive limit - upper:</b>                 | No data available. |
| <b>Explosive limit - lower:</b>                 | No data available. |
| <b>Flash Point:</b>                             | Not applicable     |
| <b>Self Ignition Temperature:</b>               | No data available. |
| <b>Decomposition Temperature:</b>               | No data available. |
| <b>pH:</b>                                      | No data available. |
| <b>Viscosity</b>                                |                    |
| <b>Dynamic viscosity:</b>                       | Not determined.    |
| <b>Kinematic viscosity:</b>                     | Not determined.    |
| <b>Flow Time:</b>                               | No data available. |
| <b>Solubility(ies)</b>                          |                    |
| <b>Solubility in Water:</b>                     | Completely Soluble |
| <b>Solubility (other):</b>                      | No data available. |
| <b>Partition coefficient (n-octanol/water):</b> | No data available. |
| <b>Vapor pressure:</b>                          | No data available. |
| <b>Relative density:</b>                        | No data available. |
| <b>Density:</b>                                 | No data available. |
| <b>Bulk density:</b>                            | No data available. |
| <b>Relative vapor density:</b>                  | No data available. |

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Particle characteristics</b>       |                    |
| <b>Particle Size:</b>                 | No data available. |
| <b>Particle Size Distribution:</b>    | No data available. |
| <b>Specific surface area:</b>         | No data available. |
| <b>Surface charge/Zeta potential:</b> | No data available. |
| <b>Shape:</b>                         | No data available. |
| <b>Crystallinity:</b>                 | No data available. |
| <b>Surface treatment:</b>             | No data available. |

**Other information**

|                         |   |
|-------------------------|---|
| <b>Metal Corrosion:</b> | Non-corrosive per US Department of Transportation testing protocol. |
|-------------------------|---|

**10. Stability and reactivity**

|                            |   |
|----------------------------|---|
| <b>Reactivity:</b>         | Material is stable under normal conditions. |
| <b>Chemical Stability:</b> | No data available.                          |



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|  |   |
|--|---|
| <b>Possibility of hazardous reactions:</b> | Stable; however, may decompose if heated. None under normal conditions. |
| <b>Conditions to avoid:</b>                | Avoid exposure to high temperatures or direct sunlight.                 |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents.  |
| <b>Hazardous Decomposition Products:</b>   | By heating and fire, harmful vapors/gases may be formed.                |

## 11. Toxicological information

### Information on toxicological effects

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |
| <b>Ingestion:</b>    | No data available. |

### Information on likely routes of exposure

#### Acute toxicity (list all possible routes of exposure)

##### Oral

|   |  |
|---|--|
| <b>Product:</b>   | Not classified for acute toxicity based on available data.   |
| <b>Components:</b>  |  |
| Permanganic acid (HMnO <sub>4</sub> ), potassium salt (1:1) | LD 50 (Rat): > 2,000 mg/kg<br>Experimental result, Key study |

##### Dermal

|   |  |
|---|--|
| <b>Product:</b>   | Not classified for acute toxicity based on available data.   |
| <b>Components:</b>  |  |
| Permanganic acid (HMnO <sub>4</sub> ), potassium salt (1:1) | LD 50 (Rat): > 2,000 mg/kg<br>Experimental result, Key study |

##### Inhalation

|   |  |
|---|--|
| <b>Product:</b>   | Not classified for acute toxicity based on available data. |
| <b>Components:</b>  |  |
| Permanganic acid (HMnO <sub>4</sub> ), potassium salt (1:1) | No data available.   |

#### Repeated dose toxicity





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**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) NOAEL (Rat(Female, Male), Oral, 28 d): 40 mg/kg Experimental result, Key study Oral  
NOAEL (Rat(Female, Male), Dermal, 28 d): 150 mg/kg Experimental result, Key study Dermal

**Skin Corrosion/Irritation**

**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) in vivo (Rabbit): Corrosive

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) Skin sensitization:, in vivo (Guinea pig): Non sensitising

**Carcinogenicity**

**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.



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**In vivo**

**Product:** No data available.

**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Reproductive toxicity**

**Product:** May damage fertility or the unborn child.

**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Aspiration Hazard**

**Product:** Based on available data, the classification criteria are not met.

**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Information on health hazards**

**Other hazards**

**Product:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt LC 50 (Poecilia reticulata, 48 h): 0.7 mg/l Experimental result, Key study  
NOAEL (Poecilia reticulata, 72 h): 0.35 mg/l Experimental result, Key



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(1:1) study  
LC 100 (Poecilia reticulata, 24 h): > 1.67 mg/l Experimental result, Key study  
LC 100 (Poecilia reticulata, 72 h): 0.69 mg/l Experimental result, Key study  
NOAEL (Poecilia reticulata, 96 h): 0.35 mg/l Experimental result, Key study

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) EC 50 (Daphnia magna, 24 h): 0.15 mg/l Experimental result, Key study  
EC 100 (Daphnia magna, 24 h): 0.64 mg/l Experimental result, Key study  
EC 100 (Daphnia magna, 48 h): 0.32 mg/l Experimental result, Key study  
EC 50 (Daphnia magna, 48 h): 0.06 mg/l Experimental result, Key study  
NOAEL (Daphnia magna, 24 h): 0.02 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components:**

Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Toxicity to Aquatic Plants**



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**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Toxicity to microorganisms**  
**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

#### Persistence and Degradability

**Biodegradation**  
**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**BOD/COD Ratio**  
**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

#### Bioaccumulative potential

**Bioconcentration Factor (BCF)**  
**Product:** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

**Partition Coefficient n-octanol / water (log K<sub>ow</sub>)**  
**Product:** Log K<sub>ow</sub>: No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.

#### Mobility in soil:

**Product** No data available.  
**Components:**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1) No data available.



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**Results of PBT and vPvB assessment:**

**Product** No data available.  
**Components:**  
Permanganic acid (HMnO4), No data available.  
potassium salt (1:1)

**Other adverse effects:**

**Other hazards**  
**Product:** No data available.

**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.  
  
Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**14. Transport information**

**DOT**UN number or ID number: Not regulated.  
UN Proper Shipping Name: Not regulated.  
Transport Hazard Class(es)  
Class: Not regulated.  
Label(s): Not regulated.  
Packing Group: Not regulated.  
Marine Pollutant: Not regulated.  
Limited quantity: Not regulated.  
Excepted quantity: Not regulated.

Special precautions for user: Not regulated.



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**IMDG**

|                               |                |
|-------------------------------|----------------|
| UN number or ID number:       | Not regulated. |
| UN Proper Shipping Name:      | Not regulated. |
| Transport Hazard Class(es)    |                |
| Class:                        | Not regulated. |
| Subsidiary risk:              | Not regulated. |
| EmS No.:                      | Not regulated. |
| Packing Group:                | Not regulated. |
| Environmental Hazards         |                |
| Marine Pollutant:             | Not regulated. |
| Special precautions for user: | Not regulated. |

**IATA**

|                               |                |
|-------------------------------|----------------|
| UN number or ID number:       | Not regulated. |
| Proper Shipping Name:         | Not regulated. |
| Transport Hazard Class(es):   |                |
| Class:                        | Not regulated. |
| Subsidiary risk:              | Not regulated. |
| Packing Group:                | Not regulated. |
| Environmental Hazards         |                |
| Marine pollutant:             | Not regulated. |
| Special precautions for user: | Not regulated. |

|                                   |
|-----------------------------------|
| <b>15. Regulatory information</b> |
|-----------------------------------|

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**  
None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**  
None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

**Chemical Identity**  
Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1)



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**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Reproductive toxicity

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

**Chemical Identity**

Permanganic acid (HMnO<sub>4</sub>), potassium salt (1:1)

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable



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**Kyoto protocol**  
Not applicable

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| <b>16. Other information, including date of preparation or last revision</b> |
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**Issue Date:** 12/14/2021

**Version #:** 1.2

**Further Information:** No data available.

**Disclaimer:** Disclaimer:  
The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.