

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Potassium Permanganate 0.18 N

CAS number 7722-64-7

Synonyms No information available.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious Corrosion/Irritation (Category 2)

Serious Eye Damage/Eye Irritation (Category 1)

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Causes skin irritation  
Causes serious eye damage

Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Toxic to aquatic life with long lasting effects.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name          | Common name and synonyms | CAS number | Concentration    |
|------------------------|--------------------------|------------|------------------|
| Water                  | H <sub>2</sub> O         | 7732-18-5  | 99.395 - 99.405% |
| Potassium Permanganate | N/A                      | 7722-64-7  | 0.595 - 0.605%   |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

- If inhaled** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
- In case of skin contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
- In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
- If swallowed** Clean mouth with water and drink afterwards plenty of water.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes eye burns. Causes severe eye damage.

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

Note to Physician: Treat Symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** No information available.

#### 5.2 Specific hazards arising from the substance or mixture

May intensify fire; oxidizer. Thermal decomposition can lead to release of irritating gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

#### 5.3 Special 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.

#### 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

##### Explosion limits

**Upper** No information available.

**Lower** No information available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

##### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 0            | 1           | OX               |

### SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation.

## 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.

## 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

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

### Incompatibilities

Strong oxidizing agents. Combustible material.

# SECTION 8: Exposure controls/personal protection

## 8.1 Occupational exposure limits

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Component              | Type    | Value               |
|------------------------|---------|---------------------|
| Potassium Permanganate | Ceiling | 5 mg/m <sup>3</sup> |

### US. ACGIH Threshold Limit Values

| Component              | Type | Value  |
|------------------------|------|--|
| Potassium Permanganate | TWA  | 0.02 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> |

### US. NIOSH: Pocket Guide to Chemical Hazards

| Component | Type | Value                 |
|-----------|------|-----------------------|
|           | IDLH | 500 mg/m <sup>3</sup> |

|                        |      |         |
|------------------------|------|---------|
| Potassium Permanganate | TWA  | 1 mg/m3 |
|                        | STEL | 3 mg/m3 |

### Biological occupational exposure limits

No information available.

## 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves.

#### Body Protection

Wear appropriate clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                      |                           |
|----------------------|---------------------------|
| Physical State       | Liquid                    |
| Appearance           | Purple                    |
| Odor                 | Odorless                  |
| Odor Threshold       | No information available. |
| pH                   | No information available. |
| Melting Point/Range  | No information available. |
| Boiling Point/Range  | No information available. |
| Evaporation Rate     | No information available. |
| Flammability (solid) | Not applicable.           |

|  |                           |
|--|---------------------------|
| Flammability or explosive limit        |                           |
| Upper                                  | No information available. |
| Lower                                  | No information available. |
| Vapor Pressure                         | No information available. |
| Vapor Density                          | No information available. |
| Density                                | No information available. |
| Solubility                             | Miscible.                 |
| Partition coefficient; n-octanol/water | No information available. |
| Autoignition Temp                      | No information available. |
| Decomposition Temp                     | No information available. |
| Viscosity                              | No information available. |
| Molecular Formula                      | KMnO4                     |
| Molecular Weight                       | 158.04                    |
| VOC Content(%)                         | No information available. |
| Oxidizing properties                   | No information available. |

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reactive.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Excess heat.

### 10.5 Incompatible materials

Strong oxidizing agents. Combustible material.

### 10.6 Hazardous decomposition products

Heavy metal oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------|-----------|-------------|-----------------|
|           |           |             |                 |

|                        |                 |                    |            |
|------------------------|-----------------|--------------------|------------|
| Potassium Permanganate | 750 mg/kg (rat) | > 2000 mg/kg (rat) | Not listed |
|------------------------|-----------------|--------------------|------------|

### Skin corrosion/irritation

Irritating to skin.

### Serious eye damage/eye irritation

Causes eye burns.

### Respiratory or skin sensitization

No information available.

### Germ cell mutagenicity

No information available.

### Carcinogenicity

| Component              | CAS       | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|------------------------|-----------|------------|------------|------------|------------|------------|
| Water                  | 7732-18-5 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Potassium Permanganate | 7722-64-7 | Not listed | Not listed | Not listed | Not listed | Not listed |

### Specific target organ toxicity - single exposure

None known.

### Specific target organ toxicity - repeated exposure

None known.

### Reproductive toxicity

No information available.

### Chronic effects

No information available.

## 11.2 Additional Information

The toxicological properties have not been fully investigated.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product                |       | Species                | Test Results |      |
|------------------------|-------|------------------------|--------------|------|
| Potassium permanganate | LC50  | Poecilia reticulata    | 0.47 mg/L    | 96 h |
|                        | EC50  | Daphnia magna          | 0.06 mg/L    | 48 h |
|                        | ErC50 | Desmodemus subspicatus | 0.8 mg/L     | 72 h |
|                        | NOEC  | Desmodemus subspicatus | 0.32 mg/L    | 72 h |
|                        | EC50  | Activated sludge       | 164 mg/L     | 3 h  |

### 12.2 Persistence and degradability

May persist based on information available.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

|                      |   |
|----------------------|---|
| UN-No                | UN3082  |
| Proper Shipping Name | Environmentally hazardous substances, liquid, n.o.s |
| Hazard Class         | 9   |
| Packing Group        | III   |

### IMDG

|                      |   |
|----------------------|---|
| UN-No                | UN3082  |
| Proper Shipping Name | Environmentally hazardous substances, liquid, n.o.s |
| Hazard Class         | 9   |
| Packing Group        | III   |

### IATA

|                      |   |
|----------------------|---|
| UN-No                | UN3082  |
| Proper Shipping Name | Environmentally hazardous substances, liquid, n.o.s |
| Hazard Class         | 9   |
| Packing Group        | III   |

## SECTION 15: Regulatory information



**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Listed.  
Potassium Permanganate. RQ: 100 lb

**SARA 304 Emergency release notification**  
Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
See section 2 for more information.

**SARA 313 (TRI reporting)**  
Regulated.  
Potassium Permanganate. Weight: 0.595-0.605%; Threshold value: 1.0%

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Regulated (Potassium Permanganate).

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not regulated.

**Safe Drinking Water Act**  
Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**  
Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**  
Listed (Potassium Permanganate).

**US. New Jersey Worker and Community Right-to-Know Act**  
Listed (Potassium Permanganate).

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed (Potassium Permanganate and Water).

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

Issue date: 10/18/2024

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet 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.