

**Section 1. Identification****1.1 Product Identifier** 1782

|                       |   |
|-----------------------|---|
| Product Name          | POTASSIUM PERMANGANATE 0.2M (1N)  |
| CAS Number            | 7722-64-7   |
| REACH Registration No | A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date. |
| Molecular Formula     | $\text{KMnO}_4 = 158.034$   |

**1.2 Relevant identified uses of the substance or mixture & uses advised against**

|                  |  |
|------------------|--|
| Uses of Material | Chemical for industrial and laboratory use. Not suitable for domestic use. |
|------------------|--|

**1.3 Supplier** Vickers Laboratories Ltd

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|         |                      |
|---------|----------------------|
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**1.4 Emergency Telephone** (08:00-16:30) +44(0) 113 2362811  
(24hr) 112  
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

|   |   |
|---|---|
| Skin corrosion/irritation, category 2     | H315: Causes skin irritation.                               |
| Serious eye damage/irritation, category 1 | H318: Causes serious eye damage.                            |
| Reproductive toxicity, category 2         | H361: Suspected of damaging fertility or the unborn child.  |
| Hazard to aquatic environment, category 1 | H400: Very toxic to aquatic life.                           |
| Hazard to aquatic environment, category 1 | H410: Very toxic to aquatic life with long lasting effects. |

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

|                   |        |
|-------------------|--------|
| Signal word       | Danger |
| Hazard Pictograms |        |



**Hazard Statements** Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.

**Precautionary Statements** Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or a rash occurs: Get medical advice/attention.

## Section 3. Composition

### 3.1 Substances

| Component              | CAS No.   | EEC No.   | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE)   |
|------------------------|-----------|-----------|-----------------------|----------|---|
| Potassium permanganate | 7722-64-7 | 231-760-3 | 01-2119480139-34-XXXX | ~3.2%    | Ox. Sol. 2, Skin Corr. 1C, Acute Tox. 4 (O), Eye Dam. 1, Repr. 2, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1 |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |   |
|--------------------------------------|---|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists <b>OBTAIN MEDICAL ATTENTION.</b> |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.   |
| Inhalation                           | Remove from exposure.   |
| Ingestion                            | Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, <b>OBTAIN MEDICAL ATTENTION.</b>              |
| Personal protection for first aiders | Wear protective gloves / eye protection.  |

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |  |
|---------------------|--|
| Extinguishing Media | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media    | Nothing specified.   |

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

|         |   |
|---------|---|
| Hazards | May evolve toxic fumes if involved in a fire. |
|---------|---|

### 5.3 Advice for firefighters

|                         |   |
|-------------------------|---|
| Advice for firefighters | Consider all other materials in the vicinity. |
|-------------------------|---|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |                            |
|---------------------|----------------------------|
| Personal Protection | Presents no major hazards. |
|---------------------|----------------------------|

## 6.2 Environmental precautions

Environmental Presents no major environmental hazard.

## 6.3 Methods and material for containment and cleaning up

Major Spillage Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

## 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

# Section 7. Storage & Handling

## 7.1 Precautions for safe handling

No specific precautions.

## 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sunlight.

## 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

## 8.1 Control parameters

| Component              | CAS No    | Concentration | Workplace Exposure Limits |                         |
|------------------------|-----------|---------------|---------------------------|-------------------------|
|                        |           |               | Long Term (8hr TWA)       | Short Term 15min period |
| Potassium permanganate | 7722-64-7 | ~3.2%         | -                         | -                       |

Exposure data source(s) No hazardous components.

## 8.2 Exposure controls

Respiratory Protection Presents no significant inhalation health hazard.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

|                       |                              |
|-----------------------|------------------------------|
| Appearance            | Clear purple liquid.         |
| Odour                 | No specific odour.           |
| pH                    | 7 @ 20°C                     |
| Boiling Point         | 100 °C                       |
| Melting Point         | 0 °C                         |
| Flash Point           | Not applicable               |
| Upper Flammable Limit | Not applicable               |
| Lower Flammable Limit | Not applicable               |
| Auto Ignition         | Not applicable               |
| Explosive Properties  | No.                          |
| Oxidising Properties  | No.                          |
| Vapour Pressure       | Not applicable               |
| Relative Density      | 1.0320                       |
| Water Solubility      | Completely soluble in water. |

## 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|      |                                    |  |
|------|------------------------------------|--|
| 10.1 | Reactivity                         | No data available.                                 |
| 10.2 | Chemical Stability                 | Stable under normal conditions                     |
| 10.3 | Possibility of hazardous reactions | No data available.                                 |
| 10.4 | Conditions to Avoid                | No specific conditions.                            |
| 10.5 | Incompatible Materials             | No specific materials to avoid.                    |
| 10.6 | Hazardous Decomposition Products   | May produce hazardous fumes if involved in a fire. |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |   |
|----------------------|---|
| Eyes                 | Causes serious eye damage.  |
| Skin                 | Stains skin. Causes skin irritation.  |
| LD50 Skin            | Not available   |
| Ingestion            | Ingestion of large amounts will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea. |
| LD50 Oral            | Not available   |
| Inhalation           | Presents no significant health hazard by inhalation.  |
| LD50 Inhalation      | Not available   |
| TCLo                 | Not available   |
| Carcinogenicity      | Not considered to be a carcinogen.  |
| Mutagenicity         | Not considered to be a mutagen.   |
| Reproductive Effects | Suspected of damaging fertility or the unborn child.  |

## Section 12. Ecological

|      |                                  |                                   |
|------|----------------------------------|-----------------------------------|
| 12.1 | Toxicity                         | No specific environmental hazard. |
|      | LC50 Algal                       | Not available                     |
|      | LC50 Crustacea                   | Not available                     |
|      | LC50 Fish                        | Not available                     |
| 12.2 | Persistence and degradability    | No data available.                |
| 12.3 | Bioaccumulative potential        | No data available.                |
| 12.4 | Mobility in soil                 | No data available.                |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.          |
| 12.6 | Other adverse effects            | None known at present.            |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                |
|------------------------|--------------------------------|
| Disposal Methods       | Flush to drain.                |
| Contaminated Packaging | Use a licensed waste disposer. |

## Section 14. Transport Information

|                                   |                                  |
|-----------------------------------|----------------------------------|
| 14.1 UN Number                    | Non-restricted                   |
| 14.2 Proper Shipping Name         | Non-restricted                   |
| 14.3 Transport classes            |                                  |
| UN classification                 | None                             |
| Subsidiary hazard(s)              | None                             |
| Transport category                | None                             |
| ADR Hazard ID                     | Non-restricted                   |
| Tunnel Restriction Code           | Non-restricted                   |
| 14.4 Packing Group                | None                             |
| 14.5 Environment hazards          | See section 12.                  |
| 14.6 Special precautions for user | No special precautions required. |
| 14.7 Transport in bulk            | Not transported in bulk.         |

## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1; Reproductive toxicity, category 2; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H315, H318, H361, H410  
Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P273, P280, P264, P305+P351+P338, P302+P352, P333+P313  
Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or a rash occurs: Get medical advice/attention.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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