
MATERIAL SAFETY DATA SHEET

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

1.1 Product identifiers

Product name: Potassium Permanganate (0.1% aqueous)
Product code: MIC505
Brand: Solmedia Ltd

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

Identified uses: Test reagent

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Solmedia Ltd.
Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
Telephone: 0844 80 80 900
Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone: +44 (0)844 80 80 900

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to regulation (EC) No. 1272/2008 (CLP)

This substance is not classified as hazardous according to Regulation (EC) No. 1272/2008

2.2 Label elements According to Regulation (EC) No. 1272/2008

Not required

2.3 Other hazards:

Dyes and Stains by their physical nature may result in permanent staining if in contact with skin and clothing

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant

3.2 Mixtures

Potassium Permanganate 0.1%

Synonyms: None

Form: Liquid

Substance name	Concentration	Product identifier	Hazard classes and hazard categories
Potassium permanganate	0.1%	CAS No.: 7722-64-7 EC No.: 231-760-3 REACH	Acute toxicity, 4, - H302 Ox. Sol. 2, - H272 Aquatic Acute 1, - H400 Aquatic Chronic 1, - H410

Refer to section 16 for additional classification information.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General:** Get medical advice if you feel unwell. Show this safety sheet to doctor/physician in attendance.
- Skin contact (or hair):** Remove/Take off immediately all contaminated clothing Wash off with soap and plenty of water.
- Note: Dyes and Stains by their physical nature may result in permanent staining in contact with skin.**
- Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. If eye irritation persists get medical advice/attention.
- Ingestion:** Do NOT induce vomiting. Rinse out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use alcohol-resistant foam or fine water spray, dry chemical powder or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Potassium oxide & manganese oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

The product itself does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye protection. Wash hands thoroughly after handling.

6.2 Environmental precautions

Do not let undiluted product or large quantities enter drains or water course. Prevent further leakage or spillage where safe to do so. Inform responsible authorities as appropriate.

6.3 Methods and materials for containment and cleaning up

Absorb any spilt liquid with appropriate absorbent material into suitably labelled closed containers for disposal. Wash spillage site with water and appropriate detergent.

6.4 Reference to other sections

For disposal refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Wear appropriate personal protective equipment provided. Wash hands thoroughly after handling. Do not eat or drink when handling product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry well-ventilated place. Replace container lid after use and keep container upright and tightly closed to prevent leakage.

7.3 Specific end use(s)

Recommended restriction to professional users only.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No	Value	Control Parameter	Basis
Potassium Permanganate	7722-64-7	TWA	0.5mg/m ³	UK.EH40 WEL – Workplace Exposure Limits

8.2 Exposure controls

Engineering measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Respiratory protection: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (Without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands through after handling.

Eye/face protection: Avoid exposure to liquid splashes. Where appropriate use equipment for eye protection complying with appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin protection: Wear appropriate impervious personal protective equipment provided as per general industrial hygiene practice and good laboratory practices.

Environmental: No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	Liquid,
Colour:	Dark Purple Liquid
Odour:	No data available
Odour Threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range	No data available
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Water solubility:	No data available
Partition coefficient: octanol/water	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	Not an oxidiser

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

Toxicokinetics

Potassium Permanganate

Acute oral toxicity:

LD50 (oral. Rat): 1090 mg/kg

Skin corrosion/irritation:

No data available

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitisation:

In case of skin contact: not sensitising After inhalation: not sensitising

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available.

Tumourigenic

RTECS criteria: No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or EC.

Reproductive toxicity:

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard:

No data available

Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. Ingestion of large quantities may result in nausea, vomiting or diarrhoea.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and Symptoms of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information:

RTECS: Potassium Permanganate

SECTION 12: Ecological information

This product has not been tested. Judgements on the expected ecotoxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity

Fish Toxicity: LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.3-0.6mg/l - 96h

Daphnia Toxicity: EC50 – *Daphnia magna* (water flea) – 0.084 mg/l – 48h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Potassium Permanganate very toxic to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of non-recyclable substances via a licensed waste material processor.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN-No.: Not available

14.2 Proper Shipping Name: Not available

14.3 Hazard Class(es): Not available

14.4 Packing group: Not available

14.5 Environmental hazards:

No

Marine Pollutant: No

14.6 Special precautions for user:

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 as amended by Regulation (EU) 2015/830.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other information

Additional Information (from Section 3)

Hazard Statement(s)

H302 Harmful if swallowed.

H272 May intensify fire; oxidiser.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.