



## SAFETY DATA SHEET

**1.0 N Potassium permanganate****1. Chemical product & Company Identification.****Product details**

Chemical Name : 1.0 N Potassium permanganate

**Name of Manufacturer**Ya Thai Chemical Co., Ltd. 78/9 Moo 5 Takam, Bangpakong, Chachoengsao 24130  
THAILANDTel: 66-3857-4400 Fax: 66-3857-3700 Email: [yathai@yathai.co.th](mailto:yathai@yathai.co.th)**2. Hazard Identification.**Environment : Acute aquatic toxicity - Category 2  
hazards : Chronic aquatic toxicity - Category 2

Label element

Symbol



Signal word : No signal word

Hazard : H411 Toxic to aquatic life with long lasting effects  
statements

Precautionary Statements

Prevention : P273 Avoid release to the environment

Respond : P391 Collect spillage.

Disposal : P501 Dispose of contents/container to comply with  
local, state and federal regulations**3. Composition/Information on Ingredients.**

Chemical Name : 1.0 N Potassium permanganate

CAS Number : 7722-64-7

EC Number : 231-760-3

Chemical Formula :  $\text{KMnO}_4$ 

Molecular Weight : 158.03 g/mol

**4. First Aid Measures.**

Eye Contact : Rinse out with plenty of water.

Skin Contact : Wash off with soap and plenty of water. Remove  
contaminated clothing.

Inhalation : If breathed in, move person into fresh air.

Swallowing : Immediately make victim drink of water, Consult a  
physician.

General : No special measures required.

Information

## 5. Fire Fighting Measures.

### Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions and the product is not flammable.

### Special hazards arising from the substance or mixture

Ambient fire may liberate hazardous vapours.

### Protective equipment

Special protective equipment for firefighters.

Wear self-contained respiratory protective device and wear fully protective suit.

## 6. Accidental Release Measures.

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### Environmental precautions

Do not empty into drains.

### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

## 7. Handling and Storage.

### Precautions for safe handling

Change contaminated clothing. Wash hands after working with substance.

### Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Personal Protection.

### Exposure controls

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

### Personal protective Equipment (PPE)

Hand protection	:	Protective gloves.
Eye protection	:	Safety glasses.
Respiratory protection	:	Required when dusts are generated.

## 9. Physical and Chemical Properties.

Appearance	:	Liquid
Color	:	Reddish violet
Odor	:	Odorless
pH	:	No data available
Specific gravity	:	1.00 - 1.10
Melting point / range	:	No data available
Boiling point / range	:	No data available
Flash point	:	Not flammable
Self-igniting	:	Product is not self-igniting

Danger of explosion	:	Product does not present an explosion hazard
Water solubility	:	Soluble in water

## 10. Physical Hazard (Stability & Reactivity).

### Stability and Reactivity

The product is chemically stable under standard ambient conditions (room temperature).

### Possibility of hazardous reactions

The generally known reaction partners of water.

### Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### Incompatible materials

Strong reducing agents. Strong acids. Strong bases.

## 11. Toxicological Information.

### Acute toxicity

Oral LD50	:	1,090 mg/kg (rat)
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### Primary irritant effect

Skin	:	No irritant effect.
Eyes	:	May causes eye irritation.
Sensitization	:	No sensitizing effects known.

## 12. Ecological Information.

### Acquatic toxicity

EC50 (24h)	:	0.235 mg/l (Daphnia magna)
LC50 (96h)	:	0.261 mg/l (Fishes: Ictalurus punctatus)

### Persistence and degradability

May cause long-term adverse effects in the environment.

### Bio-accumulative potential

No information available.

COD and BOD value will increase when flushed into sewers or streams.

Hazardous for water, do not allow product to reach ground water, water course or sewage system.

## 13. Disposal Consideration.

### Waste Disposal

Dispose after activated sludge process.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport Information.

### International regulation

Un Class	:	Not applicable
UN Number	:	Not applicable
UN Proper shipping name	:	Not applicable
Packing group	:	Not applicable

## 15. Regulatory Information.

Follow all regulation in your country.

## 16. Other Information.

This information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein. We can not quarantine that These are the only hazards which exist.