

## Permanganate Value

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

#### 1.1 - Product identifier

Trade name/designation Permanganate Value  
Chemical name  
Product-type Mixture  
Product code TbsRPERM  
CAS No.

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

Relevant identified uses - Reagent for water analysis  
Uses advised against - Other

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

Water-I.D. GmbH  
Daimlerstr. 20  
76344 Eggenstein Germany  
+49 (0) 721 - 78 20 29 - 0 Fax+49 (0) 721 - 78 20 29 - 11  
EHS / Compliance: lab@water-id.com

#### 1.4 - Emergency telephone number

- 慕尼黑毒物控制中心  
电话: +49(0)89/19 24 0  
德国  
24小时服务  
语言: 德语, 英语  
也请致电 China  
- Poison Control Center Munich  
Tel: +49 (0) 89 / 19 24 0  
Germany  
24 hour service  
Languages: German, English  
please also call from: China

### SECTION 2: Hazards identification

#### 2.1 - Classification of the substance or mixture

Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Aquatic Acute 2	Hazardous to the aquatic environment - Aquatic Acute 2

#### 2.2 - Label elements

Signal word  
Hazard pictograms  
Hazard statements

H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects

#### Precautionary statements

P273	Avoid release to the environment.
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P501 Dispose of contents, container to an appropriate recycling or disposal facility.

### 2.3 - Other hazards

PBT-substance. - No information available.

vPvB-substance. - No information available.

Other hazards which do not result in classification - No information available.

## SECTION 3: Composition / information on ingredients

- Not applicable

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
potassium chloride	CAS No. : 7447-40-7 Index No. : EC No. : 231-211-8	70 - 95		Not applicable
Magnesium silicate	CAS No. : 14807-96-6 Index No. : EC No. : 238-877-9	1 - 10		Not applicable
Sodium Starch Glycolate	CAS No. : 9063-38-1 Index No. : EC No. :	1 - 10		Not applicable
potassium permanganate	CAS No. : 7722-64-7 Index No. : 025-002-00-9 EC No. : 231-760-3	< 1		Not applicable

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

Following inhalation - No special measures are necessary.  
- Provide fresh air.

Following skin contact - Wash immediately with: Water  
- When in doubt or if symptoms are observed, get medical advice.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.  
- In case of eye irritation consult an ophthalmologist.

After ingestion - Rinse mouth thoroughly with water.  
- Do NOT induce vomiting.

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - No information available.

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

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### SECTION 5: Firefighting measures

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5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO<sub>2</sub>)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture

- No information available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

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### SECTION 6: Accidental release measures

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6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Avoid dust formation.

For emergency responders

- No information available.

6.2 - Environmental precautions

- No information available.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- No information available.

Methods and material for cleaning up

- Take up mechanically.
- Wash with plenty of water.

Inappropriate techniques

- No information available.

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### SECTION 7: Handling and storage

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7.1 - Precautions for safe handling

Recommendation

- No special technical protective measures are necessary.

Advices on general occupational hygiene

- No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- No information available.

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### SECTION 8: Exposure controls/personal protection

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### 8.1 - Control parameters

### 8.2 - Exposure controls

Appropriate engineering controls - No information available.

### 8.3 - Individual protection measures, such as personal protective equipment

- Suitable protective clothing: lab coat



## SECTION 9: Physical and chemical properties

### 9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Tablets
<u>Colour</u>	brown	<u>Odour</u>	odourless
Odour threshold		No data available	
pH		7,1 10,5 g/l	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		No data available	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

### 9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

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### SECTION 10: Stability and reactivity

#### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

#### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

#### 10.4 - Conditions to avoid

- No information available.

#### 10.5 - Incompatible materials

- No information available.

#### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

### SECTION 11: Toxicological information

#### 11.1 - Information on toxicological effects

Acute toxicity - Not classified

#### Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Based on available data, the classification criteria are not met.

#### Toxicity : Substances

potassium permanganate (7722-64-7)	
LD50 oral (rat)	TOXNET

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

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STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

### SECTION 12: Ecological information

#### 12.1 - Toxicity

##### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

##### Toxicity : Substances

potassium permanganate (7722-64-7)	
EC50 48 hr crustacea	0,06 mg/l Daphnia magna (ECOTOX Database) M-Factor: 10
LC50 96 hr fish	0,1 mg/l Ictalurus punctatus ECOTOX Database
NOEC chronic fish	0,35 mg/l 24h (ECHA)
NOEC chronic crustacea	0,02 mg/l 24h (ECHA)

- Harmful to aquatic life with long lasting effects.

#### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

#### 12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

#### 12.4 - Mobility in soil

- No information available.

#### 12.6 - Other adverse effects

- No information available.

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### SECTION 13: Disposal considerations

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#### 13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- No information available.

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### SECTION 14: Transport information

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#### 14.1 - UN number

<u>UN number (ADR)</u>	:	Not applicable
<u>UN number (RID)</u>	:	Not applicable
<u>UN number (IMDG)</u>	:	Not applicable
<u>UN number (IATA)</u>	:	Not applicable

#### 14.2 - UN proper shipping name

#### 14.3 - Transport hazard class(es)

ADR Classification code: :

#### 14.4 - Packing group

#### 14.5 - Environmental hazards

Environmental hazards :  
Marine pollutant :

#### 14.6 - Special precautions for user

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

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### SECTION 15: Regulatory information

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

VOC content No data available

- Substance/product listed in the following inventories:

Community safety, health and environmental provisions, national laws Inventory of Existing Chemical Substances Produced or Imported in China (IECSC) (CAS No. : 7447-40-7, CAS No. : 14807-96-6, CAS No. : 9063-38-1, CAS No. : 7722-64-7).  
Catalog of Hazardous Chemicals(2015) (CAS No. : 7722-64-7).

#### 15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

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### SECTION 16: Other information

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SDS versions

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Version	Issue date	Description of the amendments
1	21.04.2020	Creation

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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