



# SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 7/26/2018

Version: 6

Language: en-US

Date of print: 1/30/2019

## Potassium FS reagent R2

Material number 1 5221 R2

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### 1. Product and company identification

#### Product identifier

Trade name: Potassium FS reagent R2  
As part of the kits: 1 5221 XX XX XXX  
(The positions X code different packages.)

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

General use: Reagent for in-vitro diagnostic use  
For professional use only

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

Company name: DiaSys Diagnostic Systems GmbH  
Street/POB-No.: Alte Strasse 9  
Postal Code, city: 65558 Holzheim  
WWW: <http://www.diasys.de>  
E-mail: [mail@diasys.de](mailto:mail@diasys.de)  
Telephone: +49 (0) 6432-9146-0  
Telefax: +49 (0) 6432-9146-32  
Dept. responsible for information:  
Corporate headquarters, Telephone: +49 (0) 6432-9146-0, Email: [mail@diasys.de](mailto:mail@diasys.de)

#### Emergency phone number

Infraserv, Telephone: +49 (0) 69-305-6418

### 2. Hazards identification

#### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Color: colorless up to light yellow, clear  
Odor: odorless  
Classification: This material is classified as not hazardous.

#### Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

#### Hazards not otherwise classified

see section 11: Toxicological information

### 3. Composition / Information on ingredients

Chemical characterization: Aqueous solution of anorganic salts and organic compounds.



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 10034-96-5	Manganese sulphate	< 0.5 %	Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aquatic toxicity - chronic - Category 2.

### 4. First aid measures

- In case of inhalation: Provide fresh air. Seek medical attention.
- Following skin contact: Change contaminated clothing. Remove residues with water. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.
- After swallowing: Rinse mouth and drink large quantities of water. If you feel unwell, seek medical advice. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

After eye contact: May cause irritations.

#### Information to physician

Treat symptomatically.

### 5. Fire fighting measures

- Flash point/flash point range: not combustible
- Auto-ignition temperature: No data available
- Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

#### Specific hazards arising from the chemical

Fires in the immediate vicinity may cause the development of dangerous vapors.

- Protective equipment and precautions for firefighters: Wear self-contained breathing apparatus.

Additional information: Do not allow fire water to penetrate into surface or ground water.

### 6. Accidental release measures

- Personal precautions: Avoid contact with skin and eyes. Provide adequate ventilation. Wear appropriate protective equipment.
- Environmental precautions: Do not allow to penetrate into soil, waterbodies or drains.
- Methods for clean-up: Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty of water.



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## 7. Handling and storage

### Handling

Advices on safe handling: Avoid contact with skin and eyes. Provide adequate ventilation, and local exhaust as needed. Keep all containers, equipment and working place clean. Wear appropriate protective equipment. Wash hands before breaks and after work. When using do not eat, drink or smoke.

### Storage

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 35.6 °F and 46.4 °F. Do not freeze. Protect from light. Keep sterile.

Hints on joint storage:

Do not store together with: strong acids, alkalis.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
10034-96-5	Manganese sulphate	USA: ACGIH: TWA	0.02 mg/m <sup>3</sup> (respirable fraction)
		USA: ACGIH: TWA	0.1 mg/m <sup>3</sup> (inhalable fraction)
		USA: NIOSH: STEL	3 mg/m <sup>3</sup>
		USA: NIOSH: TWA	1 mg/m <sup>3</sup>
		USA: OSHA: Ceiling	5 mg/m <sup>3</sup>

### Engineering controls

Provide good ventilation and/or an exhaust system in the work area.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Nitrile rubber - Breakthrough time: >480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: When vapors form, use respiratory protection. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

General hygiene considerations:

Avoid contact with skin and eyes. Change contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink or smoke.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Color: colorless up to light yellow, clear



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Odor:	odorless
Odor threshold:	No data available
pH value:	at 77 °F: 7.0
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	not combustible
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	at 68 °F: 1.0136 g/mL
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

### 10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reactions are known.
Conditions to avoid:	Protect against heat /sun rays.
Incompatible materials:	Strong acids and alkalis
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	No data available



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## 11. Toxicological information

### Toxicological tests

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- Serious eye damage/irritation: Lack of data.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Lack of data.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

### Symptoms

After eye contact: May cause irritations.

## 12. Ecological information

### Ecotoxicity

Further details: No data available

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Product

Recommendation: Special waste. Dispose of waste according to applicable legislation.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.



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### 14. Transport information

#### USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

#### Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

#### Air transport (IATA)

Proper shipping name: Not restricted

#### Further information

No dangerous good in sense of these transport regulations.

### 15. Regulatory information

#### National regulations - U.S. Federal Regulations

Manganese sulphate: TSCA Inventory: listed; UVCB; EPA flags P  
TSCA HPVC: not listed

#### National regulations - Great Britain

Hazchem-Code: -

### 16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Reason of change: General revision

Date of first version: 5/11/2011

#### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.