



# SAFETY DATA SHEET

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

Revision date: 7/16/2018

Version: 9

Language: en-US

Date of print: 1/30/2019

## Alkaline Phosphatase FS IFCC 37°C Reagent R1

Material number 1 0441 R1

Page: 1 of 7

### 1. Product and company identification

#### Product identifier

Trade name: Alkaline Phosphatase FS IFCC 37°C Reagent R1  
As part of the kits: 1 0441 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, clear  
Odor: weak amine odor  
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



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Relevant ingredients:

| CAS No.         | Designation              | Content | Classification   |
|-----------------|--------------------------|---------|--|
| CAS<br>124-68-5 | 2-Amino-2-methylpropanol | < 10 %  | Skin Irritation - Category 2. Eye Irritation - Category 2A. Aquatic toxicity - chronic - Category 3. |

Additional information: Contains Sodium azide (0.95 g/L) as preservative.  
Contains in traces also zinc.

### 4. First aid measures

In case of inhalation: Move victim to fresh air. If you feel unwell, seek medical advice.

Following skin contact: Change contaminated clothing. Remove residues with water. In case of skin irritation, 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 thoroughly with water. Do not induce vomiting without medical advice.  
Have victim drink large quantities of water, with active charcoal if possible. Seek medical attention.

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

After contact with skin: May cause skin irritation in susceptible persons.

After eye contact: The product can cause irritation of the eyes.

#### 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.  
In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

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, eyes, and clothing. Do not breathe vapors. Wear appropriate protective equipment. In enclosed areas: Provide adequate ventilation.



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### 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.

## 7. Handling and storage

### Handling

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

### Storage

#### Requirements for storerooms and containers:

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

#### Hints on joint storage:

Do not store together with: Acids, alkalis.

## 8. Exposure controls / personal protection

### 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. OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003

#### Skin protection

Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138. 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:

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. Do not breathe vapors. Do not eat, drink or smoke when using this product.

## 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, clear

#### Odor:

weak amine odor

#### Odor threshold:

No data available



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|  |                              |
|--|------------------------------|
| pH value:                                | at 86 °F: 10.4               |
| 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: approx. 1.011 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 hazardous reactions known.   |
| Conditions to avoid:               | Protect against heat /sun rays.   |
| Incompatible materials:            | Acids, 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.

Other information: Contains Sodium azide (0.95 g/L):  
After resorption of toxic quantities: headache, dizziness, nausea, cough, vomiting, spasms, breathing paralysis, CNS disorders, low blood pressure, cardiovascular failure, unconsciousness, collapse.

#### Symptoms

After contact with skin: May cause skin irritation in susceptible persons.  
After eye contact: The product can cause irritation of the eyes.

### 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.



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### Contaminated packaging

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

### Additional information

Discharge into the environment must be avoided.

## 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

2-Amino-2-methylpropanol: TSCA Inventory: listed  
TSCA HPVC: not listed

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

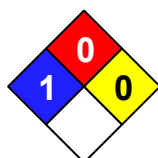
2-Amino-2-methylpropanol: Massachusetts Haz. Substance codes:  
6  
Pennsylvania Haz. Substance code: -

### 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: 6/22/2011



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### 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.