

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 23/1/2019
Version: 22
Language: en-GB,IE
Date of print: 12/3/2021

### Total protein FS Reagent R1

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

#### 1.1 Product identifier

Trade name: Total protein FS Reagent R1

As part of the kits: 1 2311 XX XX XXX (The positions X code different packages.)

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

General use: Reagent for in-vitro diagnostics in human samples

For professional use only

#### 1.3 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

 Telephone:
 +49 (0) 6432-9146-0

 Telefax:
 +49 (0) 6432-9146-32

Department responsible for information:

Corporate headquarters, Telephone: +49 (0) 6432-9146-0, Email: mail@diasys.de

#### 1.4 Emergency telephone number

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

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Met. Corr. 1; H290 May be corrosive to metals.

#### 2.2 Label elements

Labelling (CLP)



Signal word: Warning

Hazard statements: H290 May be corrosive to metals.

Precautionary statements:

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.



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#### 2.3 Other hazards

A corrosive effect cannot be ruled out because of the pH value.

Results of PBT and vPvB assessment:

No data available

### **SECTION 3: Composition / information on ingredients**

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: Aqueous solution

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119457892-27-xxxx EC No. 215-185-5 CAS 1310-73-2	Sodium hydroxide	< 0.5 %	Met. Corr. 1; H290. Skin Corr. 1A; H314.

Full text of H- and EUH-statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in

case of troubles.

Following skin contact: Take off immediately all contaminated clothing.

After contact with skin, wash immediately with plenty of water.

Cover with sterile dressing material to protect against infection. Seek medical attention.

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. Subsequently

seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water.

Do not induce vomiting. Do not try to neutralize. Seek medical attention.

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

A corrosive effect cannot be ruled out because of the pH value. Can cause skin, eye and

respiratory tract irritation.

In case of ingestion: Irritant up to corrosive.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.



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#### 5.2 Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapours. In the event of a fire, the following may be produced when the water evaporates: Sodium compounds, carbon monoxide and carbon dioxide.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

In case of surrounding fires: Wear self-contained breathing apparatus.

Additional information: Hazchem-Code: 2R

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Do not breathe vapours. Wear appropriate protective equipment. Keep unprotected people away.

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

Absorb spillage to prevent material damage. Dilute with plenty of water. Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. Wear appropriate protective equipment. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 2 °C and 25 °C. Protect from light. Keep away from heat. Store containers in upright position.

Unsuitable materials: Aluminium, zinc, tin.

Hints on joint storage: Do not store together with ammonium compounds or acids.

Keep away from food, drink and animal feedingstuffs.

#### 7.3 Specific end use(s)

No information available.



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### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
1310-73-2	Sodium hydroxide	Great Britain: WEL-STEL	2 mg/m³
	•	Ireland: 15 minutes	2 mg/m³

#### 8.2 Exposure controls

When aerosols and vapours form: Withdraw by suction.

#### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must

be worn whenever the WEL levels have been exceeded.

Particulates filter (P2/P3) according to EN 143.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber-Layer thickness: 0.11 mm.

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Have eye wash bottle or eye rinse ready at work place. Wash hands before

breaks and after work.

### **SECTION 9: Physical and chemical properties**

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

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Colour: colourless, clear

Odour: odourless

Odour threshold: No data available

pH: at 25 °C: 12.80 - 12.85

Melting point/freezing point: approx. 0 °C Initial boiling point and boiling range: approx. 100 °C Flash point/flash point range: not combustible Evaporation rate: No data available Flammability No data available Explosion limits: No data available Vapour pressure No data available Vapour density: No data available Density: at 20 °C: 1.00 g/mL

Water solubility: at 20 °C: completely miscible



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Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity, kinematic:

Explosive properties:

Oxidizing characteristics:

No data available

No data available

No data available

#### 9.2 Other information

Additional information: No data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

May be corrosive to metals.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Reacts with ammonium compounds: Formation of ammonia.

#### 10.4 Conditions to avoid

Keep away from heat.

#### 10.5 Incompatible materials

acids

#### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are

observed.

Thermal decomposition: No data available



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### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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**

A corrosive effect cannot be ruled out because of the pH value. Can cause skin, eye and

respiratory tract irritation.

In case of ingestion: Irritant up to corrosive.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

#### 12.2 Persistence and degradability

Further details: Methods for the determination of biodegradability are not applicable to inorganic

substances.

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

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



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### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Product** 

Waste key number: 16 05 06\* = Laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals.

\* = Evidence for disposal must be provided.

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

**Package** 

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

### **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1824

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1824, SODIUM HYDROXIDE SOLUTION

#### 14.3 Transport hazard class(es)

ADR/RID: Class 8, Code: C5
IMDG: Class 8, Subrisk -

IATA-DGR: Class 8

#### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

Ш

#### 14.5 Environmental hazards

Marine pollutant: no

#### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 80, UN number UN 1824

Hazard label: 8
Limited quantities: 5 L
EQ: E1

Package - Instructions: P001 IBC03 LP01 R001

Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special provisions: TP1
Tank coding: L4BN
Tunnel restriction code: E





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#### Sea transport (IMDG)

EmS:F-A, S-BSpecial provisions:223Limited quantities:5 LExcepted quantities:E1

Package - Instructions: P001, LP01

Package - Provisions:

IBC - Instructions:

IBC - Provisions:

Tank instructions - IMO:

Tank instructions - UN:

Tank instructions - Provisions:

TP1

Stewage and handling:

Cotagony

Stowage and handling: Category A. Segregation: SG35

Properties and observations: Colourless liquid. Corrosive to aluminium, zinc and tin. Reacts with

ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and

mucous membranes. Reacts violently with acids.

Segregation group: 18

#### Air transport (IATA)

Hazard label: Corrosive

Excepted Quantity Code: E1

Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L

Special provisions: A3 A803

Emergency Response Guide-Code (ERG): 8L

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

### **SECTION 15: Regulatory information**

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

#### National regulations - Great Britain

Hazchem-Code: 2R

No data available

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

#### **SECTION 16: Other information**

#### **Further information**

Wording of the H-phrases under paragraph 2 and 3:

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.



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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level DNEL: Derived no-effect level EC: European Community EN: European Standard EU: European Union

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution

from Ships

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

TLV: Threshold Limit Value

**UN: United Nations** 

vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

Reason of change: ADR/RID 2019
Date of first version: 30/11/2006

Department issuing data sheet

Contact person: see section 1: Department 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.