

**EU SAFETY DATA SHEET**

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

**Total Protein R1 - Material number: 01 00042**

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**1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Name of product: Total Protein Reagent R1  
as part of the kits: 01 00042 XX XX XXXX  
(The positions X code different packages.)

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

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: DiaSystem Scandinavia AB  
Street/POB-No.: Datorgatan 3  
State/city/postal code: 561 33 Jönköping  
Sweden  
World Wide Web: <http://www.diasystem.se>  
Email: [info@diasystem.se](mailto:info@diasystem.se)  
Telephone: +46 (0) 36 12 62 20  
Telefax: +46 (0) 36 18 77 30  
Dept. responsible for information:  
DiaSystem, Telephone: +46 (0)36 126220

**1.4 Emergency telephone number**

**Giftinformationscentralen, Telephone +46 112**

**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

**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

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**3. Composition/information on ingredients**

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterization: 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.

**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. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Do not try to neutralize. Seek medical attention. A corrosive effect cannot be ruled out because of the pH value.

**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.

**5. Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

**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

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes. 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 penetrate into soil, waterbodies 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, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

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**Total Protein R1 - Material number: 01 00042****6.4 Reference to other sections**

Refer additionally to section 8 and 13.

**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.  
Unsuitable materials: Aluminium, zinc, tin.

Hints on joint storage:

Do not store together with ammonium compounds or acids

**7.3 Specific end use(s)**

No information available.

**8. Exposure controls / Personal protection equipment****8.1 Control parameters**

Occupational exposure limit values

Ingredient	Designation	Type	Limit value
1310-73-2	Sodium hydroxide	Great Britain: WEL-STEL 2 mg/m <sup>3</sup> Ireland: 15 minutes	minutes 2 mg/m <sup>3</sup> minutes 2 mg/m <sup>3</sup>

**8.2 Exposure controls**

When aerosols and vapours form: Withdraw by suction.

**Personal protection equipment****Occupational exposure controls**

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: Lab coat

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.

**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: weak amine-like

pH value: 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

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Density:	at 20 °C: 1.00 g/mL
Water solubility:	at 20 °C: completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

**9.2 Other information**

Additional information: No data available

**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**

No data available

**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

**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.	
Other information:	A corrosive effect cannot be ruled out because of the pH value.

**Symptoms**

In case of ingestion: May cause irritations.  
After contact with skin: May cause irritations.  
After eye contact: May cause irritations.

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**12. Ecological information****12.1 Toxicity**

Further details: 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

**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. Waste disposal according to official state regulations.

**Contaminated packaging**

Waste key number 15 01 02 = Plastic packaging.

Recommendation: Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

**14.1 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: III

**14.5 Environmental hazards**

Marine pollutant: no

**14.6 Special precautions for user**

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

Hazard label: 8

Limited quantities: 5 L

EQ: E1

Contaminated packaging - Instructions: P001 IBC03 LP01 R001

Special provisions for packing together: MP19

Portable tanks - Instructions: T7

Portable tanks - Special provisions: TP1 TP28

Tank coding: L4BN

Tunnel restriction code: E



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**Sea transport (IMDG)**

EmS:	F-A, S-B
Special provisions:	223
Limited quantities:	5 L
Excepted quantities:	E1
Contaminated packaging - Instructions:	P001, LP01
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP1
Stowage and handling:	Category A. SW2
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

**15. Other 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 substance a chemical safety assessment is not required.

**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.

Reason of change:	General revision (Regulation (EU) No 2015/830)
Date of first version:	2011-07-01

**Department issuing data sheet**

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

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). 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.