

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

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## **Creatinine FS Reagent R2**

Material number 1 1711 R2

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

#### **1.1 Product identifier**

#### Creatinine FS Reagent R2 As part of the kits: 1 1711 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:

Trade name

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.
	P280	Wear protective gloves/protective clothing/eye protection.
	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. Special danger of slipping by leaking/spilling product.

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
EC No. 201-865-9 CAS 88-89-1	Picric acid	< 1 %	Expl. 1.1; H201. Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331.

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

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

#### 4.1 Description of first aid measures

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General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand.
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 and wash it before reuse. Clean with plenty of water. If possible, also wash with polyethylene glycol 400. 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. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. 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. May be harmful if swallowed, in contact with skin or if inhaled.

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

Treat symptomatically.



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## **SECTION 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: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

In case of surrounding fires: Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: 2X

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

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

Avoid contact with skin and eyes. Provide adequate ventilation. Do not breathe mist/vapours/spray. Keep unprotected people away. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

#### 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

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. Special danger of slipping by leaking/spilling product.

#### 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, and local exhaust as needed. Do not breathe mist/vapours/spray. Avoid contact with skin and eyes. 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. Do not freeze. Keep away from heat.

Keep only in original container. Unsuitable materials: metals.



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Hints on joint storage:

Do not store together with alkalis. Keep away from food, drink and animal feedingstuffs.

#### 7.3 Specific end use(s)

No information available.

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

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
88-89-1	Picric acid	Europe: IOELV: TWA	0.1 mg/m³
		Great Britain: WEL-STEL	0.3 mg/m <sup>3</sup>
		Great Britain: WEL-TWA	0.1 mg/m <sup>3</sup>
		Ireland: 15 minutes	0.3 mg/m <sup>3</sup>
			(may be absorbed through the skin)
		Ireland: 8 hours	0.1 mg/m <sup>3</sup>
			(may be absorbed through the skin)

#### 8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed.

#### Personal protection equipment

#### **Occupational exposure controls**

Respiratory protection:	Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type (A-P2/P3) according to EN 14387.		
Hand protection:	Protective gloves according to EN 374. Glove material: Butyl caoutchouc (butyl rubber)-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 mist/vapours/spray. Avoid contact with skin and eyes. 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.

## **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: yellow, clear
Odour:	no characteristic odour
Odour threshold:	No data available
pH:	at 25 °C: 1.7



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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: 1.0009 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

## **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

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Protect against heat /sun rays.

#### 10.5 Incompatible materials

Alkalis, metals

#### **10.6 Hazardous decomposition products**

No hazardous decomposition products when regulations for storage and handling are observed. No data available

Thermal decomposition:



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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.
Other information:	The following applies to Picric acid in general: After resorption: Highly toxic (1 - 2 g compared to pure substance). Danger of cutaneous absorption.
Symptoms	
	A corrosive effect cannot be ruled out because of the pH value. Can cause skin, eye and respiratory tract irritation. May be harmful if swallowed, in contact with skin or if inhaled. After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

## **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: No data available

#### 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



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#### 12.6 Other adverse effects

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

Non-contaminated packages may be recycled.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Waste key number:	<ul> <li>16 05 06* = Laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals.</li> <li>* = Evidence for disposal must be provided.</li> </ul>
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.

## **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 3265

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Picric acid mixture)

#### 14.3 Transport hazard class(es)

ADR/RID:	Class 8, Code: C3
IMDG:	Class 8, Subrisk -
IATA-DGR:	Class 8

#### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR: Ш

#### 14.5 Environmental hazards

no

Marine pollutant:





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#### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 80, UN number UN 3265
Hazard label:	8
Special provisions:	274
Limited quantities:	5 L
EQ:	E1
Package - Instructions:	P001 IBC03 LP01 R001
Special provisions for packing together:	MP19
Portable tanks - Instructions:	Τ7
Portable tanks - Special provisions:	TP1 TP28
Tank coding:	L4BN
Tunnel restriction code:	E
Sea transport (IMDG)	
EmS:	F-A, S-B
Special provisions:	223, 274
Limited quantities:	5 L
Excepted quantities:	E1
Package - Instructions:	P001, LP01
Package - Provisions:	-
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	Τ7
Tank instructions - Provisions:	TP1, TP28
Stowage and handling:	Category A. SW2
Segregation:	SG36 SG49
Properties and observations:	Causes burns to skin, eyes and mucous membranes.
Segregation group:	1
Air transport (IATA)	

Hazard label:CorrosiveExcepted Quantity Code:E1Passenger and Cargo Aircraft: Ltd.Qty.:Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 LPassenger and Cargo Aircraft:Pack.Instr. 852 - Max. Net Qty/Pkg. 5 LCargo Aircraft only:Pack.Instr. 856 - Max. Net Qty/Pkg. 60 LSpecial provisions:A3 A803Emergency 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

2X

Hazchem-Code:

No data available



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#### **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 unde	r paragr	aph 2	and	3:
		_		

- H201 = Explosive; mass explosion hazard.
- H290 = May be corrosive to metals.
- H301 = Toxic if swallowed.
- H311 = Toxic in contact with skin.
- H331 = Toxic if inhaled.

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: Changes in section 15: Regulatory information General revision

Date of first version: 7/11/2006

#### Department issuing data sheet

Contact person: see section 1: Department responsible for information



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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.

