

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830 Revision date:29/4/2020Version:4Language:en-GB,IEDate of print:6/9/2022

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

#### **1.1 Product identifier**

Trade name:

beta-Hydroxybutyrate 21 FS Reagent R2

As part of the kits: 1 3711 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 fo	r 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)

This mixture is classified as not hazardous.

### 2.2 Label elements

#### Labelling (CLP)

Hazard statements:	not applicable
	not applicable

Precautionary statements: not app
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#### **Special labelling**

EUH208 EUH210 Contains Mixture of 5-chlorine-2-methyl-2H-isothiazol-3-on and 2-methylen-2H-isothiazol-3-on (3:1). May produce an allergic reaction. Safety data sheet available on request.

### 2.3 Other hazards

No risks worthy of mention.

Results of PBT and vPvB assessment:

No data available



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

#### 3.1 Substances: not applicable

### 3.2 Mixtures

#### Chemical characterisation: Aqueous solution

Hazardous ingredients:

Ingredient	Designation	Content	Classification
list no. 611-341-5 CAS 55965-84-9	Mixture of 5-chlorine-2-methyl- 2H-isothiazol-3-on and 2-methylen-2H- isothiazol-3-on (3:1)	< 0.0015 %	Acute Tox. 3; H301. Acute Tox. 2; H310. Acute Tox. 2; H330. Skin Corr. 1C; H314. Eye Dam. 1; H318. Skin Sens. 1A; H317. Aquatic Acute 1; H400 (M-factor = 100). Aquatic Chronic 1; H410 (M-factor = 100). (EUH071).

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. In case of respiratory difficulties seek medical attention.
Following skin contact:	Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with soap and plenty of 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 opthalmologist.
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. Never give anything by mouth to an unconscious person. Seek medical attention.
4.2 Most impo	rtant symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

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.

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

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:

Wear self-contained breathing apparatus.



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Additional information: Hazchem-Code: -

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

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear appropriate protective equipment. Provide adequate ventilation. Keep unprotected people away. Take off contaminated clothing and wash it before reuse.

# 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

# 6.3 Methods and material for containment and cleaning up

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, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Take off 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 8 °C. Protect from light. Keep sterile.

### 7.3 Specific end use(s)

No information available.

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

#### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

#### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: When aerosols and vapours form: Use combination filter type A/P according to EN 14387.



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Hand protection:	Protective gloves according to EN 374. Glove material: Nitrile 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 hy	<sup>giene measures:</sup> Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

#### **Environmental exposure controls**

Do not allow to penetrate into soil, waterbodies or drains.

# **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
Odour:	no characteristic odour
Odour threshold:	No data available
pH:	at 25 °C: 4.30
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
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:	1.0123 mg/L
Water solubility:	complete
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

refer to 10.3



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# 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

No hazardous reactions known.

# 10.4 Conditions to avoid

Protect against heat /sun rays.

# 10.5 Incompatible materials

No data available

# 10.6 Hazardous decomposition products

No decomposition when used properly. Thermal decomposition: No data available

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such. 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: Based on available data, the classification criteria are not met.

Contains Mixture of 5-chlorine-2-methyl-2H-isothiazol-3-on and

2-methylen-2H-isothiazol-3-on (3:1). May produce an allergic reaction.

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.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Further details:

No data available



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# 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

# 12.6 Other adverse effects

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

# **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.

Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

# 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

# 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable



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### 14.5 Environmental hazards

Marine pollutant:

### 14.6 Special precautions for user

no

No dangerous good in sense of these transport regulations.

### 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:

No data available

#### National regulations - EC member states

Further regulations, limitations and legal requirements:

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:

- H310 = Fatal in contact with skin.
- H314 = Causes severe skin burns and eye damage.
- H317 = May cause an allergic skin reaction.
- H318 = Causes serious eye damage.

H330 = Fatal if inhaled.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

EUH071 = Corrosive to the respiratory tract.

EUH208 = Contains Mixture of 5-chlorine-2-methyl-2H-isothiazol-3-on and

2-methylen-2H-isothiazol-3-on (3:1). May produce an allergic reaction.

EUH210 = Safety data sheet available on request.

H301 = Toxic if swallowed.



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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 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 EQ: Excepted quantities EU: European Union IATA: International Air Transport Association IATA-DGR: International Air Transport Association – Dangerous Goods Regulations 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 M-factor: Multiplication factor 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 TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 3: Composition/information on ingredients (CAS No. 55965-84-9) General revision Date of first version: 20/5/2016

#### 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.