



# SAFETY DATA SHEET

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

Revision date: 31/5/2017

Version: 4

Language: en-GB,IE

Date of print: 20/3/2018

## Erytype S RH

Material number 186021

Page: 1 of 8

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

#### 1.1 Product identifier

Trade name: Erytype S RH  
This safety data sheet pertains to the following products:  
806 055 Erytype Rh+K 8-double  
806 150 Erytype S Rh-Pheno double  
806 155 Erytype S CDE+K  
806 165 Erytype S Rh (D)  
806 170 Erytype S Rh+K single  
806 180 Erytype S Rh+K reag. I  
806 181 Erytype S Rh+K  
806 186 Erytype S Rh+K reag. II

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

General use: diagnostic agent in microtiter plate.  
Use as laboratory reagent.  
Only for industrial users.

#### 1.3 Details of the supplier of the safety data sheet

Company name: Bio-Rad Medical Diagnostics GmbH  
Street/POB-No.: Industriestr. 1  
Postal Code, city: 63303 Dreieich  
Germany  
WWW: [www.medizinische-diagnostik-dreieich.de](http://www.medizinische-diagnostik-dreieich.de)  
E-mail: [contact.bmd@bio-rad.com](mailto:contact.bmd@bio-rad.com)  
Telephone: +49 (0)6103-3130-0  
Telefax: +49 (0)6103-3130-646  
Dept. responsible for information: Produktmanagement Transfusion  
Telephone: 06103 3130-611  
Telefax: 06103 3130-724

#### 1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,  
Telephone: +49 551-19240

### 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.

Additional information: If handled and used properly, exposure from the product is unlikely.  
Take care that activity is executed only by specialists or authorised personnel.

#### 2.2 Label elements

##### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable



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Revision date: 31/5/2017  
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Date of print: 20/3/2018

## Erytype S RH

Material number 186021

Page: 2 of 8

### Special labelling

Text for labelling: Contains Sodium azide,  
Trisodium-5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate.

### 2.3 Other hazards

No risks worthy of mention.

Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 217-699-5 CAS 1934-21-0	Trisodium-5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate	< 2 %	Resp. Sens. 1; H334. Skin Sens. 1; H317.
EC No. 247-852-1 CAS 26628-22-8	Sodium azide	< 2 %	Acute Tox. 2; H300. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. (EUH032).
EC No. 222-639-6 CAS 3564-14-5	Eriochrome	< 2 %	Eye Irrit. 2; H319.

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

Additional information: Microtiter plate, coated.  
If handled and used properly, exposure from the product is unlikely.  
Take care that activity is executed only by specialists or authorised personnel.  
In aqueous solution:  
Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

Following skin contact: Remove residues with water. Remove contact lenses, if present and easy to do. Continue rinsing. Change contaminated clothing. 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. In case of eye irritation consult an ophthalmologist.

After swallowing: Rinse mouth and drink large quantities of water.  
Induce vomiting when the affected person is not unconscious. Observe risk of aspiration if vomiting occurs.  
Immediately get medical attention. Never give anything by mouth to an unconscious person.

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

No data available



# SAFETY DATA SHEET

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

## Erytype S RH

Material number 186021

Revision date: 31/5/2017

Version: 4

Language: en-GB,IE

Date of print: 20/3/2018

Page: 3 of 8

### 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 case of fire may be liberated: styrene, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear appropriate protective equipment.

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 the substance. Provide adequate ventilation. Wear personal protection equipment.

### 6.2 Environmental precautions

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

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

Take up mechanically, placing in appropriate containers for disposal. 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: Avoid contact with skin and eyes. Wear appropriate protective equipment. Keep all containers, equipment and working place clean. Provide adequate ventilation, and local exhaust as needed. Take off contaminated clothing and wash it before reuse. Take care that activity is executed only by specialists or authorised personnel.

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

Requirements for storerooms and containers:

Keep only in the original container. Keep containers tightly closed and at a temperature between 2 °C and 8 °C.

Hints on joint storage:

Do not store together with acids/alkalies and oxidation agents.

### 7.3 Specific end use(s)

No information available.



# SAFETY DATA SHEET

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

Revision date: 31/5/2017  
Version: 4  
Language: en-GB,IE  
Date of print: 20/3/2018

## Erytype S RH

Material number 186021

Page: 4 of 8

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
26628-22-8	Sodium azide	Europe: IOELV: STEL	0.3 mg/m <sup>3</sup> (may be absorbed through the skin)
		Europe: IOELV: TWA	0.1 mg/m <sup>3</sup> (may be absorbed through the skin)
		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 good ventilation and/or an exhaust system in the work area.

Take care that activity is executed only by specialists or authorised personnel.

#### Personal protection equipment

##### Occupational exposure controls

- Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Particulates filter P3 according to EN 143. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
- 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 hygiene measures: Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. After work, wash hands and face.

### 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: solid  
Form: solid  
Colour: colourless or coloured
- Odour: odourless
- Odour threshold: No data available
- pH value: not applicable
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point/flash point range: Not applicable
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available



# SAFETY DATA SHEET

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

Revision date: 31/5/2017  
Version: 4  
Language: en-GB,IE  
Date of print: 20/3/2018

## Erytype S RH

Material number 186021

Page: 5 of 8

Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Solubility:	soluble in Ethanol (Coating agent)
Water solubility:	soluble (Coating agent)
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

### 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

Strong oxidizing agents, strong acids and alkalis.

### 10.6 Hazardous decomposition products

Thermal decomposition: No data available



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Revision date: 31/5/2017

Version: 4

Language: en-GB,IE

Date of print: 20/3/2018

## Erytype S RH

Material number 186021

Page:

6 of 8

## 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): Data technically impossible to obtain.

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: Data technically impossible to obtain.

Skin sensitisation: Data technically impossible to obtain.

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

May be harmful if swallowed.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### General remarks

If handled and used properly, exposure from the product is unlikely.

In aqueous solution:

Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

Information about sodium azide:

LD50 Rat, oral: 27 mg/kg

LD50 Rabbit, dermal: 20 mg/kg

LC50 Rat, inhalative: 37 mg/m<sup>3</sup>

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

sodium azide: Very toxic to aquatic organisms.

### 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



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## Erytype S RH

Material number 186021

Revision date: 31/5/2017

Version: 4

Language: en-GB,IE

Date of print: 20/3/2018

Page: 7 of 8

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 16 05 09 = discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

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

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.  
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

### 14.5 Environmental hazards

Marine pollutant: no

### 14.6 Special precautions for user

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



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Date of print: 20/3/2018

## Erytype S RH

Material number 186021

Page: 8 of 8

### 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

#### 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:

H300 = Fatal if swallowed.  
H317 = May cause an allergic skin reaction.  
H319 = Causes serious eye irritation.  
H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H400 = Very toxic to aquatic life.  
H410 = Very toxic to aquatic life with long lasting effects.  
EUH032 = Contact with acids liberates very toxic gas.

Reason of change: Changes in section 1: Material designation

Date of first version: 29/4/2015

#### 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.