



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 1 of 8

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

1.1 Product identifier

Trade name: Erytype Variant
This safety data sheet pertains to the following products:
806070030 Erytype Variant 30
806070036 Erytype Variant 36
806070037 Erytype Variant 37
806070051 Erytype Variant 51
806070053 Erytype Variant 53
806070055 Erytype Variant 55
806070062 Erytype Variant 62
806070063 Erytype Variant 63
806070070 Erytype Variant 70

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
E-mail: 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.



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 2 of 8

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

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

Chemical characterisation: microtiter plate/Coating agent contains: sodium azide, tris-(Hydroxymethyl)-aminomethane

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 247-852-1 CAS 26628-22-8	Sodium azide	< 3 %	Acute Tox. 2; H300. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. (EUH032).
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. 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: 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: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Seek medical treatment in case of troubles.

Following skin contact: Remove residues with water. Change contaminated clothing. In case of skin reactions, consult a physician.



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 3 of 8

- 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 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

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

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. Do not breathe dust.

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.



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 4 of 8

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. Do not breathe dust.

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.

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 ³ (may be absorbed through the skin)
		Europe: IOELV: TWA	0.1 mg/m ³ (may be absorbed through the skin)
		Great Britain: WEL-STEL	0.3 mg/m ³
		Great Britain: WEL-TWA	0.1 mg/m ³
		Ireland: 15 minutes	0.3 mg/m ³ (may be absorbed through the skin)
		Ireland: 8 hours	0.1 mg/m ³ (may be absorbed through the skin)

8.2 Exposure controls

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

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use combination filter type A-P3 according to EN 14387.

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.



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 5 of 8

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
Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Solubility:	soluble in Ethanol
Water solubility:	soluble
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.



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 6 of 8

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

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): Data technically impossible to obtain.

Acute toxicity (inhalative): Data technically impossible to obtain.

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.

General remarks

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

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



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 7 of 8

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 penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 16 05 08* = discarded organic chemicals consisting of or containing hazardous substances

* = Evidence for disposal must be provided.

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.



SAFETY DATA SHEET

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

Revision date: 30/5/2017
Version: 2
Language: en-GB,IE
Date of print: 13/12/2017

Erytype Variant

Material number 186023

Page: 8 of 8

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

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: General revision

Date of first version: 6/5/2015

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.