

**Safety data sheet**  
according to 1907/2006/EC, Article 31  
**Kinase RR Buffer**

Revision: 07.03.2018

Supersedes version issued: 24.04.2017

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

**1.1 Product identifier**

Trade name:  
Kinase RR Buffer  
Article number:  
29-255

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

Reagent for analysis  
For additional information on uses please refer to the BioThema AB website (<https://biothema.com>) or e-mail us at [support@biothema.com](mailto:support@biothema.com)

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

Biothema AB  
Handens stationsväg 17  
136 40 Handen  
Sweden  
+46 (0)8 7770020  
Email address: [support@biothema.com](mailto:support@biothema.com)  
MSDS author: BioThema AB

**1.4 Emergency telephone number**

Emergency telephone #: 112  
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008  
Chronic aquatic toxicity (Category 3), H412  
For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements**

Labeling according to Regulation (EC) No 1272/2008.  
The product is classified and labelled according to the CLP regulation.  
Pictograms: Void  
Signal Word: Void  
Hazard statement(s)  
H412 Harmful to aquatic life with long lasting effects.  
Precautionary statement(s)  
P273, P501 Avoid release to the environment, Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other Hazards**

None known

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Results of PBT and vPvB assessment in accordance with Annex XIII of (EC) No 1907/2006:

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

#### **3.1 Substances**

Not applicable

#### **3.2 Mixtures**

Aqueous solution. The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

| <b>EC</b> | <b>CAS</b> | <b>Chemical name</b>  | <b>Percent</b> |
|-----------|------------|---|----------------|
| 618-344-0 | 9002-93-1  | Polyethylene glycol tert-octylphenyl ether<br>Hazard statement(s): H412<br>Precautionary statement(s): P273, P501 | <1             |

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

#### **4.1 Description of first aid measures**

Personal protective equipment for first aid responders is not required.

No immediate medical attention required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: The product might cause skin irritation; good practice is to remove contaminated clothing and rinse skin with water.

After eye contact: Rinse opened eye for several minutes under running water as a precaution. Remove contact lenses.

After ingestion: Drink water (two glasses at most). Consult doctor if feeling unwell.

If these recommendations are not followed the exposed person could experience a delayed eye irritation and skin irritation.

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

May cause irritation. We have no further description of any symptoms.

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

No information available.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use extinguishing media

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*that is appropriate to the local surrounding environment and circumstance.*

*Unsuitable extinguishing media:*

*For this product no limitations of extinguishing media are given.*

**5.2 Special hazards arising from the substance or mixture:**

*No data available*

**5.3 Advice for firefighters:**

*Wear protective clothing for firefighters. Wear self-contained breathing apparatus for firefighting if necessary.*

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

*Advice for non-emergency personnel:*

*Wear suitable protective equipment as specified in SECTION 8*

*Advice for emergency personnel:*

*Wear suitable protective equipment as specified in SECTION 8*

**6.2 Environmental precautions**

*Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.*

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

*Sweep up/absorb with any liquid-binding material and dispose according to section 13.*

**6.4 Reference to other sections**

*See section 7 for safe handling*

*See section 13 for disposal information*

**SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

*Advice on safe handling:*

*No special measures required*

*Advice on hygiene measures:*

*Good practice is to wash hands before and after working with this mixture. Change contaminated clothing.*

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

*Storage conditions:*

*Keep product fully closed*

*See product label for recommended storage temperature*

**7.3 Specified end use(s)**

*See subsection 1.2.*

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

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**8.1 Control parameters***Components with workplace control parameters:*

None

**8.2 Exposure controls***Engineering controls:**General industrial hygiene practice.*

*Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.*

*Individual protection measures:*

*Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Considerations to specific work environment where the product is used should be made.*

*Eye/face protection:*

*Safety glasses tested and approved under standards such as EN 166(EU).*

*Skin protection:*

*Wear appropriate chemical resistant gloves. We recommend single use vinyl gloves. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.*

*Wear lab coat or suitable protective clothing.*

*Respiratory protection:*

*Not required normally. In case of insufficient ventilation, wear suitable respiratory equipment.*

*Thermal hazards:*

*Wear appropriate thermal protective clothing, when necessary.*

*Environmental exposure controls*

*No special precautionary measures necessary.*

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|  |  |
|--|--|
| <i>State of matter:</i>                              | <i>Liquid</i>                                    |
| <i>Form:</i>   | <i>Clear liquid</i>                              |
| <i>Colour:</i>                                       | <i>Colourless</i>                                |
| <i>Odour:</i>  | <i>Odourless</i>                                 |
| <i>Odour threshold:</i>                              | <i>No information available. Odourless</i>       |
| <i>pH:</i>   | <i>6-8 at 20 °C (68 °F)</i>                      |
| <i>Melting point/freezing point:</i>                 | <i>No information available. Not determined.</i> |
| <i>Initial boiling point and boiling range:</i>      | <i>No information available. Not determined.</i> |
| <i>Flash point:</i>                                  | <i>Not applicable. Not flammable.</i>            |
| <i>Evaporation rate:</i>                             | <i>No information available. Not determined.</i> |
| <i>Flammability (solid, gas):</i>                    | <i>Not applicable. Not flammable.</i>            |
| <i>Upper/lower flammability or explosive limits:</i> | <i>Not applicable. Not flammable.</i>            |

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|   |   |
|---|---|
| Vapour pressure:                        | No information available. Not determined. |
| Vapour density:                         | No information available. Not determined. |
| Relative density:                       | No information available. Not determined. |
| Solubility(ies):                        | Fully miscible in water                   |
| Partition coefficient: n-octanol/water: | No information available. Not determined. |
| Auto-ignition temperature:              | Not applicable. Not flammable.            |
| Decomposition temperature:              | No information available. Not determined. |
| Viscosity:                              | No information available. Not determined. |
| Explosive properties:                   | Not classified as explosive.              |
| Oxidising properties:                   | None                                      |

## 9.2. Other Information

No relevant additional information available.

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Material is stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Contact with incompatible materials. Do not heat closed container. Do not pressurize container.

### 10.5 Incompatible materials

Strong oxidising or reducing agents. Strong acids or strong bases.

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### General information

Occupational exposure to the substance or mixture may cause adverse effects.

Handle in accordance with good industrial hygiene and safety practice.

#### Information on likely routes of exposure

**Ingestion:** May cause discomfort if swallowed.

**Inhalation:** Prolonged inhalation may be harmful.

**Skin exposure:** Prolonged contact with skin may cause temporary irritation.

**Eye exposure:** Direct contact with eyes may cause temporary irritation.

**Symptoms:** Exposure may cause temporary irritation, redness, or discomfort.

|                                   |  |
|-----------------------------------|--|
| acute toxicity                    | Due to partial or complete lack of data the classification is not possible |
| skin corrosion/irritation         | Due to partial or complete lack of data the classification is not possible |
| serious eye damage/irritation     | Due to partial or complete lack of data the classification is not possible |
| respiratory or skin sensitisation | Due to partial or complete lack of data the classification is not possible |
| germ cell mutagenicity            | Due to partial or complete lack of data the classification is not possible |

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|                        |  |
|------------------------|--|
| carcinogenicity        | Due to partial or complete lack of data the classification is not possible |
| reproductive toxicity  | Due to partial or complete lack of data the classification is not possible |
| STOT-single exposure   | Due to partial or complete lack of data the classification is not possible |
| STOT-repeated exposure | Due to partial or complete lack of data the classification is not possible |
| aspiration hazard      | Due to partial or complete lack of data the classification is not possible |

**SECTION 12: Ecological information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential****Bioconcentration factor (BCF)**

No data available

**n-octanol/water (log Kow)**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This product does not contain a PBT or vPvB or substances.

**12.6 Other adverse effects**

Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Residual waste**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues.  
 This material and its container must be disposed of in a safe manner.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**EU waste code**

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Special precautions**

Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

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**14.2 UN proper shipping name***ADR/RID: Not regulated as dangerous goods.**IMDG: Not regulated as dangerous goods.**IATA: Not regulated as dangerous goods.***14.3 Transport hazard class(es)***ADR/RID: Not regulated as dangerous goods.**IMDG: Not regulated as dangerous goods.**IATA: Not regulated as dangerous goods.***14.4 Packaging group***ADR/RID: Not regulated as dangerous goods.**IMDG: Not regulated as dangerous goods.**IATA: Not regulated as dangerous goods.***14.5 Environmental hazards***ADR/RID: Not regulated as dangerous goods.**IMDG: Not regulated as dangerous goods.**IATA: Not regulated as dangerous goods.***14.7 Transport in bulk according to Annex II of Marpol and the IBC Code***Not applicable***SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
*Not listed.*

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**  
*Not listed.*

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
*Not listed.*

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
*Not listed.*

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
*Not listed.*

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
*Not listed.*

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**  
*Not listed.*

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

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*This product contains a substance included in the Candidate List of Substances of Very High Concern for Authorisation (Article 59).*

**Authorisations Regulation**

**(EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

*This product contains a substance listed in Annex XIV of REACH ("Authorisation List").*

**Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

*Not listed.*

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

*Not listed.*

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

*Not listed.*

**Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

*Not listed.*

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

*Not listed.*

**Directive 94/33/EC on the protection of young people at work**

*Not listed.*

**Other regulations**

*The product is classified and labelled in accordance with EG 1272/2008 (CLP regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.*

**National regulations**

*Follow national regulation for work with chemical agents.*

**SECTION 16: Other information****List of abbreviations**

**CLP:** Classification, Labelling and Packaging

**AND:** Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

**RID:** Regulations Concerning the International Transport of Dangerous Goods by Rail

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road

**IATA:** International Air Transport Association

**IMDG:** International Maritime Code for Dangerous Goods

**IBC Code:** International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

**Marpol:** International Convention for the Prevention of Pollution from Ships

**PBT:** Persistent, bioaccumulative and toxic

**vPvB:** Very persistent and very bioaccumulative

**References**

**ACGIH's documentation of the Threshold Limit Values and Biological Exposure Indices**

**EPA (Environmental Protection Agency)**



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**HSDB®-Hazardous Substances Data Bank**

**IARC- monographs on the carcinogenic risks to humans**

**National toxicology program(NTP) report on carcinogen**

**Information on evaluation method leading to the classification of mixture**

*The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.*

**Full text of any H-statements not written out in full under Sections 2 to 15**

H412                      Harmful to aquatic life with long lasting effects.

**Training information**

*Follow training instructions when handling this material.*

*This revision is updated to comply with the latest regulations of (EC) No 1907/2006. No changes have been made in classification of the product.*

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. It characterises the product with regard to the appropriate safety precautions.*