

Λ	1	-	Λ	7	\sim	Λ	\sim	1
v	I	٠.	U	' /	'.2	U	Z	Z

Kit Components

	•	
Product code	Description	
R7016 R7006	Cocktail (patented)	
Components:		
3033P02	Cocktail (patented)	



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

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

1.1 Product identifier

Trade name: <u>Cocktail (patented)</u>
Article number: 3033P02, 3033P01

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

No further relevant information available.

Application of the substance / the preparation: In vitro

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

R-Biopharm AG

An der neuen Bergstraße 17

D-64297 Darmstadt

Further information obtainable from: e-mail: info@r-biopharm.de

1.4 Emergency telephone number:

CHEMTREC (worldwide): +1 703-741-5970 / 1-800-424-9300

CHEMTREC (United Kingdom): 44-870-8200418 and 44-2038073798 (toll free)

For additional worldwide local emergency numbers refer to section 16.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms GHS06

Signal word Danger

Hazard-determining components of labelling:

guanidinium chloride

2-mercaptoethanol

Hazard statements

H331 Toxic if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

(Contd. on page 2)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 1)

P280 Wear protective gloves / eye protection / face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture: consisting of the following components.

Dangerous components:			
	uanidinium chloride Nacute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 – 25%	
EINECS: 200-464-6	P-mercaptoethanol Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 3, H331 ACUTE 2, H373 Eye Dam. 1, H318 Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Skin Sens. 1, H317	1 – 2.5%	

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. (Contd. on page 3)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 2)

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas.

Prevent formation of aerosols.

Work only in fume cupboard.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

(Contd. on page 4)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 3)

Store protective clothing separately. Avoid contact with the eyes and skin. **Respiratory protection:** Not required.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≤ 480

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≤ 480

Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid
Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined.

pH-value at 20 °C: 6.2

Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 100 °C

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

(Contd. on page 5)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

	(Contd. of page
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C: Relative density Vapour density Evaporation rate	1.07407 g/cm³ Not determined. Not determined. Not determined.
Solubility in / Miscibility with water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Water:	78.8 %
Solids content:	19.4 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Toxic if inhaled.

LD/LC50	values	relevant for	classification:

50-01-1 guanidinium chloride

Oral LD50 556.5 mg/kg (rat)

Dermal LD50 > 2,000 mg/kg (rabbit)

60-24-2 2-mercaptoethanol

Oral LD50 244 mg/kg (rat)

(Contd. on page 6)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 5)

Dermal LD50 150 mg/kg (rabbit) Inhalative LC50/4h 2.03 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

Serious eve damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

50-01-1 guanidinium chloride

EC50/48h 70.2 mg/l (aquatic invertebrates)

ErC50/72h 33.5 mg/l (Algae)

60-24-2 2-mercaptoethanol

LC50/96h 37 mg/l (Fish)

EC50/48h 0.4 mg/l (aquatic invertebrates)

ErC50/72h 19 mg/l (Algae)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

12.6 Other adverse effects No further relevant information available.

GB



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 6)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number	
ADR, IMDG, IATA	UN2810

14.2 UN proper shipping name

ADR 2810 TOXIC LIQUID, ORGANIC, N.O.S.

(THIOGLYCOL)

IMDG, IATA TOXIC LIQUID, ORGANIC, N.O.S.

(THIOGLYCOL)

14.3 Transport hazard class(es)

ADR



Class 6.1 (T1) Toxic substances.

Label 6.1

IMDG, IATA



Class 6.1 Toxic substances.

Label 6.1

14.4 Packing group

ADR, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for userWarning: Toxic substances.

Hazard identification number (Kemler code): 60 EMS Number: F-A,S-A

Stowage Category A

Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II

of Marpol and the IBC Code Not applicable.

(Contd. on page 8)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 7)

Transport/Additional information:

ADR

Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000

ml

Transport category 2
Tunnel restriction code E

IMDG

Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000

ml

UN "Model Regulation": UN 2810 TOXIC LIQUID, ORGANIC, N.O.S.

(THIOGLYCOL), 6.1, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category H2 ACUTE TOXIC

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

National regulations:

Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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.

Relevant phrases

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Department issuing SDS: QS 0049-6151-8102-0

(Contd. on page 9)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 8)

Contact: QS 0049-6151-8102-0

Worldwide local emergency numbers

Argentina Spanish Local (City) Buenos Aires Americas 54-1159839431

Australia English Local (City) Sydney Oceania 61-290372994 Austria German Local (City) Vienna Europe 43-13649237 Belgium French Local (City) Brussels Europe 32-28083237

Brazil Portuguese Local (City) Rio De Janeiro Americas 55-2139581449 Brazil Portuguese Local (City) Sao Paulo Americas 55-1143491359

Brazil - Toll Free Portuguese Toll free Mobile-Enabled Americas 0800 892 0479

Bulgaria Bulgarian Local (City) Plovdiv Europe 359-32570104 Cayman Islands English Local (National) Americas 345-749-8392 Chile Spanish Local (City) Santiago Americas 56 2 2581 4934

China Mandarin Local (National) Asia 4001-204937 Colombia Spanish Toll Free Americas 01800-710-2151

Costa Rica Spanish Local (National) Americas 506-40003869 Croatia Croatian Local (City) Zagreb Europe 385-17776920

Czech Republic Czech Local (City) Prague Europe 420-228880039

Denmark Danish Local (National) Europe 45-69918573

Dominican Republic Spanish Local (City) Santo Domingo Americas (829) 956-7588

El Salvador Spanish Local (City) San Salvador Americas 503 2136 7633

Estonia Estonian Local (National) Europe 372-6681294 Finland Finnish Local (City) Helsinki Europe 358-942419014

France French National Europe 33-975181407

Germany German Local (City) Frankfurt Europe 49-69643508409 0800-181-7059

Greece Greek Local (City) Athens Europe 30-2111768478

Grenada English Local (City) St George Americas 1 (473) 230-0165

Guinea French Americas 224 660 71 03 00 Hong Kong Toll Free Asia 800-968-793

Hungary Hungarian Local (City) Budapest Europe 36-18088425

Iceland Icelandic Local (City) Reykjavik Europe 354 539 0655

India Hindi, Bengali, English Asia 000-800-100-7141

Indonesia Indonesian Toll Free Asia 001-803-017-9114 Ireland English Local (City) Dublin Europe 353-19014670

Israel Hebrew Local (City) Tel Aviv Asia 972-37630639

Italy Italian Local (City) Milan Europe 39-0245557031 800-789-767

Japan Japanese Local (City) Tokyo Asia 81-345209637

Latvia Latvian Lettish Local (City) Riga Europe 371-66165504

Lithuania Lithuanian Local (City) Vilnius Europe 370-52140238

Luxembourg French and German Europe 352-20202416

Macedonia Macedonian Local (City) Skopje Europe 389 2 551 7456

Malaysia Malay Local (City) Kuala Lumpur Asia 60-39212579 41-800-815-308

Mexico Spanish Americas 01-800-681-9531

Netherlands Dutch Europe 31-858880596

New Zealand English Local (City) Auckland Oceania 64-98010034

Nigeria Hausa Local (City) Lagos Europe 234 1 227 8883

Panama Spanish Local (National) Americas 507-8322475

Peru Spanish Local (City) Lima Americas 51-17071295

Philippines Tagalog Local (City) Manila Asia 1-800-1-116-1020

Poland Polish Local (City) Warsaw Europe 48-223988029

Portugal Portuguese Local (National) Europe 351-308801773

Romania Romanian Local (National) Europe 40-37-6300026

Russia RussianToll Free Mobile-Enabled Asia 8-800-100-6346

Saudi Arabia Arabic and English CHEMTREC DID Only Asia 966-8111095861

Singapore English and Mandarin Asia 65-31581349 or 800-101-2201

Slovakia Slovak Local (City) Bratislava Europe 421-233057972

Slovenia Slovenian Local (City) Ljubljana Europe 38-618888016

South Africa English Toll Free Africa 0-800-983-611

(Contd. on page 10)



Printing date 01.07.2022 Version number 14.0 Revision: 01.07.2022

Trade name: Cocktail (patented)

(Contd. of page 9)

South Korea Korean Toll Free Asia 003-0813-2549 and 080-822-1374

Spain Spanish Local (City) Barcelona Europe 34-931768545 and 900-868538

Sweden Swedish Local (City) Stockholm Europe 46-852503403

Switzerland German and French and Italian Zurich Europe 41-435082011

Taiwan Mandarin Local (City) Taipei Asia 886-2-7741-4207 and 00801-14-8954

Thailand Thai Toll Free Asia 01-800-13-203-9987

Trinidad and Tobago English Local (National) Americas 1-868-224-5716

Turkey Turkish Local (City) Istanbul Europe 90-212-7055340

Ukraine Ukrainian Europe 380-947101374

United Kingdom English Local (City) London Europe 44-870-8200418 and 44-2038073798

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.