

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1.3

Creation Date: 2017/09/11

Revision Date: 2019/08/20

## 1. Identification

### Product identifier

Product name	RIPA Cell Lysis Buffer (5X)
Product number	RP05-10 / RP05-100 / RP05-2S / RP05-500
Recommended use	Biochemical reagent for research use only

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

Manufacture / Supplier	Energenesis Biomedical Co., Ltd.
Address	6F-3, No.21, Ln. 583, Ruiguang Rd., Neihu Dist. Taipei City 114, Taiwan
Phone	+886-2-2627-0835
Fax	+886-2-2627-0836

**Emergency telephone number** +886-2-2627-0835

## 2. Hazard(s) identification

**Classification of the substance or mixture** Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4	H302, H312
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Aquatic Chronic 2	H411

### Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram



Signal word

Warning

Hazard statements

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

P264	Wash hand thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other hazards</b>	This substance/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.

## 3. Composition/information on ingredients

Substance/mixture		Mixture	
CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
7647-14-5 231-598-3 —	Sodium chloride		0.88
77-86-1 201-064-4 —	Trometamol		0.3
9016-45-9 500-024-6 —	Nonylphenol, ethoxylated	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	1
151-21-3 205-788-1 —	Sodium dodecyl sulphate	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319	0.1

### Additional information

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### Description of first aid measures

Eye Contact	Flush eyes with water as a precaution
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

<b>Indication of any immediate medical attention and special treatment needed</b>	No data available
---	-------------------

5. Firefighting measures	
<b>Extinguishing media</b>	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special hazards arising from the substance or mixture</b>	No data available
<b>Advice for fire-fighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b>	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods and material for containment and cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
<b>Reference to other sections</b>	For disposal see section 13.

7. Handling and storage	
<b>Precautions for safe handling</b>	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2-8 °C
<b>Specific end use(s)</b>	Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. Exposure controls/personal protection				
<b>Control parameters</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
Component Name CAS No.	PEL-TWA	PEL-STEL	PEL-Ceiling	BEIs
Trometamol 77-86-1	5 mg/m <sup>3</sup>	—	5 mg/m <sup>3</sup>	—

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

<b>Exposure controls</b>	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye protection	Wear chemical safety goggles. An eye wash station must be available where this product is used.
Skin and body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hand protection	Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Form: liquid Color: clear
Odour	No data available
Odour Threshold	No data available
pH	7.5-7.7
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	No data available
Solubility in water	No data available
Partition coefficient: n-octanol/ water (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

## 10. Stability and reactivity

<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	No data available

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

**Incompatible materials** No data available

**Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

**Information on toxicological effects** No data available

### Acute toxicity

Component Name CAS No.	Result	Species	Dose	Exposure
Trometamol 77-86-1	LD50 Dermal	Rat	>5,000 mg/kg	—
	LD50 Oral	Rat	>5,000 mg/kg	—
Nonylphenol, ethoxylated 9016-45-9	LD50 Dermal	Rabbit	2,000-2,990 mg/kg	—
	LD50 Oral	Rat	960-3,980 mg/kg	—
Sodium dodecyl sulphate 151-21-3	LD50 Dermal	Rabbit	580 mg/kg	—
	LD50 Oral	Rat	1,288 mg/kg	—

### Skin corrosion/irritation

Component Name CAS No.	Result	Species	Exposure
Sodium dodecyl sulphate 151-21-3	Eyes - Moderate irritant	Rabbit	10 mg (standard Draize)
	Skin - Mild irritant	Rabbit	25 mg (standard Draize)

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information No data available

## 12. Ecological information

### Toxicity

Component Name CAS No.	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microto x Data	log Pow
Nonylphenol, ethoxylated 9016-45-9	Scenedesmu s quadricauda 17 mg/L Lemna minor 15 mg/L	Daphnia magna EC50 9.3 - 21.4 mg/L Gammaru s pulex	Pimephales promelas LC50 3.8-7.7 mg/L Poecilia reticulata LC50 16.4 mg/L (48 h)	various bacteri a EC50 1000 mg/L	—

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

		EC50 20.9 mg/L			
Sodium dodecyl sulphate 151-21-3	Desmodesmus subspicatus EC50 53 mg/L (72 h) Desmodesmus subspicatus EC50 30 - 100 mg/L (96 h) Pseudokirchneriella subcapitata EC50 3.59 – 15.6 mg/L (96 h) Pseudokirchneriella subcapitata EC50 117 mg/L (96 h)	Daphnia magna EC50 1.8 mg/L (48 h)	Pimephales promelas LC50 10.2 - 22.5 mg/L (96 h semi-static 1) Poecilia reticulata LC50 10.8 - 16.6 mg/L (96 h static 1) Poecilia reticulata LC50 13.5 - 18.3 mg/L (96 h semi-static 1) Pimephales promelas LC50 15 - 18.9 mg/L (96 h static 1) Pimephales promelas LC50 22.1 - 22.8 mg/L (96 h static 1) Lepomis macrochirus LC50 4.06 - 5.75 mg/L (96 h static 1) Lepomis macrochirus LC50 4.2 - 4.8 mg/L (96 h flow-through 1) Oncorhynchus mykiss LC50 4.3 - 8.5 mg/L (96 h static 1) Pimephales promelas LC50 5.8 - 7.5 mg/L (96 h static 1) Pimephales promelas LC50 6.2 - 9.6 mg/L (96 h 1) Pimephales promelas LC50 8 - 12.5 mg/L (96 h static 1) Brachydanio rerio LC50 9.9 - 20.1 mg/L (96 h semi-static 1) Cyprinus carpio LC50 1.31 mg/L (96 h semi-static 1) Oncorhynchus mykiss LC50 4.2 mg/L (96 h 1) Lepomis macrochirus LC50 4.5 mg/L (96 h 1) Oncorhynchus mykiss LC50 4.62 mg/L (96 h flow-through 1) Brachydanio rerio LC50 7.97 mg/L (96 h flow-through 1)	—	1.6

**Persistence and degradability** No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Results of PBT and vPvB assessment** This substance/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.

**Other adverse effects** No data available

## 13. Disposal considerations

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

<b>Waste treatment methods</b>	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

## 14. Transport information

<b>IATA / ADR / RID / IMDG</b>	Classified as dangerous in the meaning of transport regulations.
<b>UN number</b>	—
<b>UN proper shipping name</b>	Not dangerous goods
<b>Transport hazard class(es)</b>	—
<b>Packaging group</b>	—
<b>Environmental hazards</b>	no
<b>Special precautions for user</b>	No data available
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	No data available

## 15. Regulatory information

<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
<b>Chemical safety assessment</b>	No data available

## 16. Other information

### Abbreviations

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment, long-term hazard
BEIs	Biological exposure indices
Eye Irrit.	Serious eye damage/eye irritation
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association-Dangerous Goods Regulations
CAS	Chemical Abstracts Service (division of the American Chemical Society)
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin corrosion/irritation

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

STEL  
TWA

Short Term Exposure Limit  
Time Weighted Average

**Further information**

Copyright 2019 Energenisis Biomedical Co., Ltd.. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Energenisis Biomedical Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.