Safety Data Sheet

RB buffer

Revision date: 2017/11/01
Version: 2017-01

1. PRODUCT AND COMPANY IDENTIFICATION

Product number: RB buffer
Recommended use: Laboratory Chemicals

Supplier: RBC Bioscience Corp.
3F, 3F.-1,2, No. 132, Ln. 235, Bao Quao Rd., Xindian Dist.,
New Taipei City 23145, Taiwan (R.O.C.)

Emergency/Phone Number: +886-2-8912-1200

E-mail: infor@rbcbiosceince.com

2. HAZARDS IDENTIFICALTION

GHS Classification

Acute toxicity (Oral): Category 4
Skin corrosion: Category 1C
Serious eye damage: Category 1
Acute aquatic toxicity: Category 3

GHS Label element

Hazard pictograms:

Signal Word: Danger

Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin bums and eye damage.
H402 Harmful to aquatic lift

Precautionary Statements

Prevention
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response
P305+P351+P338 if in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 if exposed or consumed: Call a poison centre or doctor/ physician.

Potential Health Effects:

Aggravated Medical Condition: None known.
Symptoms of Overexposure: No information available.
Carcinogenicity

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

3. COMPOSITION/INFORMATION ON INGEREDIENTS

Substance/Mixture: Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Guanidine Thiocyanate	593-84-0	30~50

4. FIRST AID MEASURES

General advice:
Move out of dangerous area. Show this material safety data sheet to the doctor in attendance..
If inhaled:
If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact:
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
In case of eye contact:
Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye.
If swallowed:
If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed:
Harmful of swallowed. Causes serious eye damage. Causes sever bums.
Note to Physician:
No information available

5. FIRE FIGHTING MEASURE

Suitable Extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during firefighting:
Don’t allow run-off from firefighting to enter drains or water courses. Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:
Carton oxides. Sulfur oxides

Specific extinguishing methods:
In the event of fire and/or explosion don't breathe fumes.

Special protective equipment for fire-fighters:
Wear self-contained breathing apparatus for firefighting if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personal to safe areas. Avoid breathing dust/fume/gas/mist/vapors/spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:
Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up:
Soak up with inert absorbent material. (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Unsuitable cleaning agents: sodium hypochlorite.

7. HANDLING AND STORAGE

Advice on safe handling:
Don't breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Conditions for sage storage
Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values

Personal protective equipment
Respiratory protection:
In the case of vapor formation use a respirator with an approved filter.
Hand protection remarks:
The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact)
Material:
Protective gloves
Eye protection:
Tightly fitting safely goggles. Wear face-shield and protective suit for abnormal processing problems. Don't wear contact lenses. Ensure that eyewash stations and safely showers are close to the workstation location.
Skin and body protection:
Choose body protection according to the amount and concentration of the dangerous substance at the work place. Acid-resistant protective clothing. Footwear protecting against chemicals.

Hygiene measures:
Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: No data available.
Odor: characteristic.
Odor Threshold: No data available.
pH: 7, neutral
Melting point/range: No data available.
Boiling point/range: No data available.
Flash point: No data available.
Evaporation rate: No data available.
Burning rate: No data available.
Upper explosion limit: No data available.
Lower explosion limit: No data available.
Vapor pressure: No data available.
Relative vapor density: No data available.
Relative density: No data available.
Density: 1.09 g/cm3
Solubility: No data available.
Water solubility: No data available.
Solubility in other solvents: No data available.
Partition coefficient n-octanol/water: No data available.
Auto ignition temperature: No data available.
Thermal decomposition: No data available.
Viscosity: No data available.
Viscosity, dynamic: No data available.
Viscosity, kinematic: No data available.
Explosive properties: No data available.
Oxidizing properties: No data available.

10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.
Chemical stability: No decomposition if stored and applied as directed.
Possibility of hazardous reactions: Stable under recommended storage conditions.
Conditions to avoid: Heat, Flames and sparks.
Incompatible materials: No data available
Hazardous decomposition products: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:
Acute oral toxicity: No data available
Acute inhalation toxicity: No data available
Acute dermal toxicity: No data available

Ingredients
Guanidine Thiocyanate
Acute oral toxicity: LD50 Oral (Rat): 593 mg/kg

Skin corrosion/irritation
Product:
Extremely corrosive and destructive to tissue. Causes skin burns.

Serious eye damage/eye irritation
Product:
Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization
No data available

Germ Cell mutagenicity
No data available

Carcinogenicity
No data available

Reproductive toxicity
No data available

STOT-single exposure
Ingredients:
2-Propanol
Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure
No data available

Aspiration toxicity
No data available

Further information
No data available

12. Ecological Information

Eco toxicity
Product
Toxicity to fish: No data available
Toxicity to algae: No data available
Toxicity to bacteria: No data available

Ingredients
Guanidine Thiocyanate
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia): 42.4 mg/l.
Exposure time: 48 h

Persistence and degradability
No data available.

Bio accumulative potential
Product
Bio accumulation: No data available
Partition coefficient n-octanol/water: No data available

Mobility in soil
No data available

Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Waste from residues:
The product should not be allowed to enter drains, water courses or the soil. Send to a licensed wastes management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/container in accordance with local regulation.

Contaminated packaging:
Dispose of as unused product. Don't re-use empty containers.

14. TRANSPORT INFORMATION

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available

Domestic regulation
49 CFR
Not regulated as a dangerous good

Special precaution for user:
For personal protection see section 8.

15. REGULATORY INFORMATION

OSHA Hazards: Harmful by ingestion.
EPCRA-Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quanitity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Acute Health Hazard

SARA 302:
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations
California Prop 65
This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

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.