

GP2 Buffer

Revision date: 2017/11/01

Version: 2017-01

1. PRODUCT AND COMPANY IDENTIFICATION

Product number: GP2 Buffer

Recommended use: Laboratory Chemicals

Supplier: RBC Bioscience Corp.

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2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation: Category 2

Eye irritation: Category 2A

GHS Label element

Hazard pictograms:



Signal Word: Warning

Hazard Statements: H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary Statements: Prevention:

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

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 INGREDIENTS

Substance/Mixture: Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
acetic acid	64-19-7	10~20

4. FIRST AID MEASURES

General advice:

Show this material safety data sheet to the doctor in attendance..

If inhaled:

Move to fresh air. 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. If symptoms persist, call a physician.

In case of eye contact:

Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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:

Causes skin irritation.

Causes serious eye irritation.

No information available.

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:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides. potassium oxide. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray.

Methods and materials for containment and cleaning up:

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Do not 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 safe storage

Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control Parameters/ Permissible concentration	Basis
acetic acid	64-19-7	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		ST	15 ppm 37 mg/m ³	NIOSH REL
		TWA	10 ppm 25 mg/m ³	NIOSH REL
		TWA	10 ppm 25 mg/m ³	OSHA Z-1
		TWA	10 ppm 25 mg/m ³	OSHA P0

Personal protective equipment

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)

Eye protection:

Safety glasses.

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.

Hygiene measures:

Keep away from food and drink. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Color: colorless.
Odor: characteristic.
Odor Threshold: No data available.
pH: 5.5
Melting point/range: No data available.
Boiling point/range: No data available
Flash point: Not applicable.
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: No data available.
Solubility: No data available.
Water solubility: completely miscible.
Solubility in other solvents: No data available.
Partition coefficient n-octanol/water: No data available.
Auto ignition temperature: doesn't ignite..
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: Acute toxicity estimate: > 5,000 mg/kg. Method: Calculation method

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Ingredients:

Acetic acid

Acute oral toxicity: LD50 Oral (Rat): 3,310 mg/kg

Acute inhalation toxicity: LC50 (Rat): 11.4 mg/l, Exposure time: 4 h

Acute dermal toxicity: LD50 Dermal (Rabbit): 1,112 mg/kg

Skin corrosion/irritation

Product:

Contact with eyes or skin causes irritation. May irritate skin.

Serious eye damage/eye irritation

Product:

Severe eye irritation. May cause irreversible eye damage.

Respiratory or skin sensitization

Ingredients

Acetic acid

May cause sensitization by inhalation and skin contact

Germ Cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

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

Acetic acid

Toxicity to fish:

LC50 (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l. Exposure time: 96 h

Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 300.82 mg/l. Exposure time: 48 h.

Method: OECD Test Guideline 202

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

Dispose of contents/container in accordance with local regulation.

Contaminated packaging:

Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

UNRTDG

Not regulated as a dangerous good

IATA-DGR

UN/ID No.: UN 2790

Proper shipping name: Acetic acid solution

Class: 8

Packing group: III

Labels: Corrosive

IMDG-Code

UN number: UN 2790

Proper shipping name: ACETIC ACID, SOLUTION

Class : 8

Packing group : III

Labels : 8

EmS Code : F-A, S-B

Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number: UN 2790

Proper shipping name: ACETIC ACID SOLUTION

Class: 8

Packing group: III

Labels: Class 8 - Corrosive

ERG Code: 153

Marine pollutant: no

15. REGULATORY INFORMATION

EPCRA-Emergency Planning and Community Right-to-Know

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: No SARA Hazards

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.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements

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.