

1 Product and Company Identification

1.1 Product identifier

Product name: Premix Selector Assay
Catalog/Part number 2259

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

In vitro diagnostic use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Biocept Inc.
5810 Nancy Ridge Drive
San Diego, CA 92121
Telephone: 888-332-7799
E-mail address: www.Biocept.com

1.4 Emergency telephone number

Emergency Telephone: Call your local emergency center

2 Hazards Identification

2.1 Classification of the substance or mixture:

Acute Toxicity, oral (Category 3)
STOT SE (Category 2)
Aquatic Chronic (Category 3)

2.2 Label elements

Tetramethylammonium chloride



Signal Words: Danger.

Hazard Statements: H301 Toxic if swallowed. H412: Harmful to aquatic life with long lasting effects. H371: May cause damage to organs.

Precautionary Statements: P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P330: Rinse mouth. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P273: Avoid release to the environment.

2.3 Other hazards

Not applicable

3 Composition/information on ingredients

Hazardous ingredient	CAS-nr.	Classification	Concentration
Tetramethylammonium chloride	75-57-0	Acute Toxicity, oral (Category 2) H300. Acute Toxicity, dermal (Category 3) H311. Skin irritation, (Category 2) H315. STOT SE 1 (H370) Aquatic chronic 2, H411.	4.35%

4 First Aid Measures

4.1 Description of first aid measures

- If inhaled:** Move exposed person to fresh air. If not breathing, give artificial respiration. Consult a physician in case of complaints.
- General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.
- In case of eye contact:** Flush eyes with water as a precaution
- If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (Nox), Hydrogen chloride gas

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Keep container in dry place. Recommended storage temperature 4-30° C (39-86° F).

Safety Data Sheet

According to Regulation (EC) 1907/2006

7.3 Specific end uses

Apart from the users mentioned in section 1.2 no other specific users are stipulated.

8 Exposure Control / Personal Protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday

Personal Protective Equipment:

Respiratory protection

No controls needed due to low concentration and volume.

Hand Skin protection

Handle with nitrile or latex gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Face shield and /or safety glasses.

Body protection

Body protection should be chosen in relation to the concentration and amount of the dangerous substances, and in relation to normal laboratory practices.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Liquid components

9.2 Other information

No data available

10 Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Hygroscopic

10.5 Incompatible Materials

Strong oxidizing agent, strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	LD50 Oral - rat - 47 mg/kg LD50 Dermal - rabbit - > 200 - 500 mg/kg Remark: prolonged skin contact may cause skin irritation and/or dermatitis.
Skin irritation and corrosion	Skin - In vitro study Result: non-corrosive (OECD Test Guideline 431) Skin - In vitro study Result: irritating - 15 min (OECD Test Guideline 439)
Respiratory or skin Sensitization	Skin - In vitro study Result: non-corrosive (OECD Test Guideline 431) Skin - In vitro study Result: irritating - 15 min (OECD Test Guideline 439) Eyes - Rabbit Result: slight irritation
Serious eye damage/eye irritation	Sigma- 87718 Page 7 of 9 The life science business of Merck operates as MilliporeSigma in the US and Canada (OECD Test Guideline 405)
Germ cell mutagenicity	Ames test Escherichia coli/Salmonella typhimurium Result: negative
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	Ingestion - Causes damage to organs. - Central nervous system
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

12 Ecological Information

12.1 Toxicity

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) -
462 mg/l - 96 h
(OECD Test Guideline 203)□

12.2 Persistence and degradability

Biodegradability Result: - Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 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.

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.
Discharge into the environment must be avoided

13 Disposal Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN Number

ADR/RID: Not required

IMDG: Not required

IATA: Not required

14.2 UN proper shipping name

ADR/RID: Not required

IMDG: Not required

IATA: Not required

14.3 Transport hazard class(es)

ADR/RID: Not required

IMDG: Not required

IATA: Not required

14.4 Packaging group

ADR/RID: Not required

IMDG: Not required

IATA: Not required

14.5 Environmental hazards

ADR/RID: Not required

IMDG Marine pollutant: Not required

IATA: Not required

14.6 Special precautions for user

No data available

According to Regulation (EC) 1907/2006

15 Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

16 Other Information

Hazard statements and Precautionary statements referred elsewhere in the safety data sheet:

H301: Toxic if swallowed

H300: Fatal if swallowed

H311: Toxic in contact with skin

H315: Causes skin irritation

H370: Causes damage to organs

H411: Toxic to aquatic life with long-lasting effects

H412: Harmful to aquatic life with long lasting effects

H371: May cause damage to organs

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P330: Rinse mouth

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor

P273: Avoid release to the environment.

Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither Biocept, Inc. nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.