

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION OF SUBSTANCE

Product Identifier: **PerfeCTa PreAmp SuperMix**

Product Code(s): Catalog numbers: 95149-250; 95149-01K; 95149-05K  
Part Numbers: 84267; 84268

General Use: Laboratory reagent  
For Research Use Only, Not for Use in Diagnostic Procedures

MSDS Issue Date: 6 June, 2013

Manufacturer:

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Or contact your local distributor for Quanta BioSciences products.

### SECTION 2 – HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

No classification is assigned based on classification criteria.

Review the entire data sheet for any additional information which did not result in a classification.

#### GHS LABEL ELEMENTS

##### Symbol(s)

None needed according to classification criteria.

##### Signal Word

None needed according to classification criteria.

##### Hazard Statement(s)

None needed according to classification criteria.

##### Precautionary Statement(s)

##### Prevention

None needed according to classification criteria.

##### Response

None needed according to classification criteria.

##### Storage

None needed according to classification criteria.

##### Disposal

None needed according to classification criteria.

### SECTION 3 – COMPOSITION/DATA ON COMPONENTS

CAS	Component	Percent
57-55-6	1,2-Propylene glycol	10-30
56-81-5	Glycerin	1-5

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### SECTION 4 - FIRST AID MEASURES

#### Description of Necessary Measures

##### Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

##### Skin Contact

Wash with plenty of soap and water. Get medical attention if irritation develops or persists.

##### Eye Contact

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

##### Ingestion

It is unlikely that first aid will be required. If a large amount is ingested, seek medical attention.

#### Most Important Symptoms/Effects

##### Acute

No information on significant adverse effects.

##### Delayed

No information on significant adverse effects.

#### Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively

### SECTION 5 - FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

regular dry powder, carbon dioxide, water spray, alcohol resistant foam

#### Unsuitable Extinguishing Media

None known.

#### Special Hazards Arising from the Chemical

#### Hazardous Combustion Products

**Combustion:** oxides of carbon

#### Special Protective Equipment and Precautions for Firefighters

Slight fire hazard. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

#### Sensitivity to Mechanical Impact

No

#### Sensitivity to Static Discharge

No

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment.

#### Methods and Materials for Containment and Cleaning Up

Collect with appropriate absorbent and place into suitable container. Keep out of water supplies and sewers.

### SECTION 7 - HANDLING AND STORAGE

#### Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wash thoroughly after handling. Use only in well ventilated areas. Use in accordance with good industrial hygiene practices.

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**Conditions for Safe Storage, including any Incompatibilities**

Store and handle in accordance with all current regulations and standards. Store at -20 °C. Store in a cool, dry place. Store in a well-ventilated area. Keep away from heat. Keep container tightly closed. Keep away from food, drink and animal feed. Keep separated from incompatible substances.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

**Glycerin (56-81-5)**

**OSHA:** 15 mg/m<sup>3</sup> TWA (mist, total particulate); 5 mg/m<sup>3</sup> TWA (mist, respirable fraction)

**Mexico** 10 mg/m<sup>3</sup> TWA LMPE-PPT (mist)

**Biological Exposure Limits**

There are no biological limit values for any of this product's components.

**Appropriate Engineering Controls**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eyes/Face Protection**

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear appropriate chemical resistant clothing.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.

**Respiratory Protection**

Respiratory protection is not required under normal conditions of use.

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, appropriate respiratory protection must be provided.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid	<b>Appearance:</b>	pink liquid
<b>Color:</b>	Pink	<b>Physical Form:</b>	liquid
<b>Odor:</b>	odorless	<b>Odor Threshold:</b>	Not available
<b>pH:</b>	8.65	<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	100 °C	<b>Decomposition Temperature:</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Flash Point:</b>	No data available
<b>Evaporation Rate:</b>	Not available	<b>Lower Explosive Limit:</b>	Not available
<b>Upper Explosive Limit:</b>	Not available	<b>Auto Ignition Temperature:</b>	Not available
<b>Vapor Pressure:</b>	23 hPa @ 20 °C	<b>Vapor Density (air = 1):</b>	Not available
<b>Density:</b>	1.9 g/ml	<b>Specific Gravity (water = 1):</b>	Not available
<b>Water Solubility:</b>	Soluble	<b>Coeff. Water/Oil Dist:</b>	Not available
<b>Viscosity:</b>	Not available	<b>Volatility:</b>	Not available
<b>Oxidizing Properties:</b>	Not available		

**SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable at normal temperatures and pressure.

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**Possibility of Hazardous Reactions**

Will not polymerize.

**Conditions to Avoid**

Prolonged storage above -20 °C. Avoid excessive heat and ignition sources. Avoid contact with incompatible materials.

**Incompatible Materials**

strong oxidizing materials

**Hazardous Decomposition**

**Combustion:** oxides of carbon

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

May cause respiratory tract irritation. May cause irritation of the skin and eyes.

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**1,2-Propylene glycol (57-55-6)**

Dermal LD50 Rabbit 20800 mg/kg; Oral LD50 Rat 20000 mg/kg

**Glycerin (56-81-5)**

Dermal LD50 Rabbit >10 g/kg; Inhalation LC50 Rat >570 mg/m3 1 h

**Information on Likely Routes of Exposure**

**Inhalation**

May cause respiratory tract irritation.

**Ingestion**

No information on significant adverse effects.

**Skin Contact**

May cause irritation.

**Eye Contact**

May cause irritation.

**Immediate Effects**

respiratory tract irritation, skin irritation, eye irritation

**Delayed Effects**

No information on significant adverse effects.

**Medical Conditions Aggravated by Exposure**

None known.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Germ Cell Mutagenicity**

No data available.

**Carcinogenicity**

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No significant target organ effects reported.

**Specific Target Organ Toxicity - Repeated Exposure**

No significant target organ effects reported.

**Aspiration Hazard**

No data available.

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**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity**

May be harmful to aquatic life.

**Component Analysis - Aquatic Toxicity**

**1,2-Propylene glycol (57-55-6)**

**Fish:**

96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static]; 96 Hr LC50 Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales promelas: 710 mg/L

**Algae:**

96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L

**Invertebrate:**

24 Hr EC50 Daphnia magna: >10000 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]

**Glycerin (56-81-5)**

**Fish:**

96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static]

**Invertebrate:**

24 Hr EC50 Daphnia magna: >500 mg/L

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No data available.

**Mobility in Soil**

No data available.

**Other Ecological Information**

Keep out of water supplies and sewers

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Dispose in accordance with all applicable regulations. Reprocess whenever possible.

**Disposal of Contaminated Packaging**

Recycle if possible.

**SECTION 14 – TRANSPORT INFORMATION**

**US DOT Information**

Not regulated as a hazardous material.

**TDG Information**

Not regulated as dangerous goods.

**SECTION 15 – REGULATORY INFORMATION**

**U.S. Federal Regulations**

**Component Analysis**

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312**

**Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No**

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**U.S. State Regulations**

**Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
1,2-Propylene glycol	57-55-6	No	No	Yes	Yes	Yes
Glycerin	56-81-5	No	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

**Canada Regulations**

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: Uncontrolled product according to WHMIS classification criteria

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL.

**1,2-Propylene glycol (57-55-6)**

1 %

**Inventory**

For research and development purposes only.

**Component Analysis - Inventory**

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
1,2-Propylene glycol	57-55-6	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Glycerin	56-81-5	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

**SECTION 16 – OTHER INFORMATION**

**History**

Revision 1.0000, 6 June 2013: original

**NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NIOSH - National Institute for Occupational Safety and Health; NTP = National Toxicology Program; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UEL - Upper Explosive Limit

**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.

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