

**QED Bioscience Inc.**  
**Surf's Up® Surfactant Kit**  
**Surfactant No. 11 Pluronic® F127**

**NOTE:** Chemicals in the Surf's Up® Surfactant Kit are provided as 10% solutions. The following pertains to chemicals in an undissolved/undiluted state.

**1. PRODUCT**

Trade Name Pluronic® F127  
Product Name Polyethylene glycol, propoxylated

**2. COMPOSITION**

Ingredient Name Polyethylene glycol, propoxylated CAS Number 9003-11-6

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

**OSHA Hazards**

No known OSHA Hazards

HAZARD RATINGS	HMIS	NFPA
Health	1	1
Flammability	0	0
Reactivity	0	0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

**4. FIRST AID MEASURES**

**Eyes** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists, seek medical attention.  
**Skin** Immediately flush skin with large amounts of soap and water. If irritation persists, seek medical attention.  
**Inhalation** Move victim to fresh air. If symptoms persist, seek medical attention.  
**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if necessary.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media** Dry chemical, alcohol-resistant foam, carbon dioxide, water spray.

**Fire Fighting Equipment/Instructions** Wear self-contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

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

**Environmental Precautions**

Do not let product enter drains.

**Clean-up Methods**

Avoid creating dust. Keep in suitable closed containers for disposal.

**7. HANDLING AND STORAGE**

**Handling Procedures** Wash thoroughly after handling. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

**Storage Procedures** Store in tightly closed container in a dry and well-ventilated area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal Protective Equipment** Wear chemical goggles and face shield if splashing is possible. Wear suitable protective clothing. Use impervious gloves. Wash and dry hands. If vapors are present or irritation is experienced, NIOSH-approved respiratory protection should be worn. Safety glasses, eye wash fountain and emergency showers are recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	powder
Color	colorless

Melting Point	No data available
Flash Point	No data available
Boiling Point	No data available
Ignition Temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
pH Value	6-7
Water solubility	No data available

**10. STABILITY AND REACTIVITY**

**Storage Stability** Stable under normal conditions.

**Incompatibility** May react with strong oxidizing agents.

**Hazardous Decomposition** May yield carbon monoxide, carbon dioxide.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral – rat – 9,380mg/kg

LD50 Oral – mouse – 15,000mg/kg

LD50 Dermal – rabbit – 20,000mg/kg

**Irritation and corrosion**

Skin – rabbit – Mild skin irritation – 24h

**Eye damage/irritation**

Eyes – rabbit – Mild eye irritation – 24h

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

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

ACGIH: No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**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

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

Effects due to ingestion may include diarrhea, weakness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and Degradability**

No data available

**Bioaccumulative potential**

No data available

To the best of our knowledge, ecological impact has not been thoroughly investigated.

**13. DISPOSAL CONSIDERATIONS**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Compliance with applicable laws is the responsibility of the user. Dispose of contaminated packaging as unused product.

**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION****OSHA Hazards**

No known OSHA hazards

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

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

**SARA 313 Components**

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

**SARA 311/312 Hazards**

No SARA hazards

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

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**New Jersey Right to Know Components**

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**California Prop. 65 Components**

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**

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. QED Bioscience Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.