

QED Bioscience Inc.
Surf's Up® Surfactant Kit
Surfactant No. 10 Pluronic® F68

NOTE: Chemicals in the Surf's Up® Surfactant Kit are provided as 10% solutions.

1. PRODUCT

Trade Name Pluronic ® F68 10% solution
Product Name Methyloxirane, oxirane block copolymer

2. COMPOSITION

Ingredient Name	CAS Number
Methyloxirane, oxirane block copolymer	106392-12-5
Water	7732-18-5

3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA Hazards

HAZARD RATINGS	HMIS	NFPA
Health	0	0
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 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.

5. FIRE FIGHTING MEASURES

Flash Point No data available
Ignition temperature No data available
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

Avoid breathing vapors, mist, or gas.

Environmental Precautions

Do not let product enter drains.

Clean-up Methods

Keep in suitable closed containers for disposal.

7. HANDLING AND STORAGE

Handling Procedures Wash thoroughly after handling. 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. 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	liquid
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	No data available
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, and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

No data available

Irritation and corrosion

No data available

Sensitization

No data available

Chronic exposure

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.

Signs and Symptoms of Exposure

Weakness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Persistence and Degradability

No data available

Ecotoxicity

No data available

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

This product contains the following components that are not on the Canadian DSL nor NDSL lists:

Methyloxirane, oxirane block copolymer CAS No. 106392-12-5

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

Water	CAS No. 7732-18-5
Methyloxirane, oxirane block copolymer	106392-12-5

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.