

**QED Bioscience Inc.**  
**Surf's Up® Surfactant Kit**  
**Surfactant No. 6 CHEMAL LA-9**

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

**1. PRODUCT**

Trade Name	<b>CHEMAL LA-9</b>
Product Name	Polyoxyethylene (9) lauryl alcohol

**2. COMPOSITION**

Synonyms	Nonaethylene glycol monododecyl ether Polidocanol Dodecyl nonethylene glycol ether Dodecylnonaglycol
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Formula	$C_{30}H_{26}O_{10}$
Molecular Weight	582.8g/mol
CAS Number	3055-99-0

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

**OSHA Hazards**

No known OSHA hazards

<b>HAZARD RATINGS</b>	<b>HMIS</b>	<b>NFPA</b>
Health	0	0
Flammability	0	0
Reactivity	0	0

**Potential Health Hazards**

**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 not breathing, give artificial respiration. Seek medical attention if necessary.  
**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical attention if necessary.

**5. FIRE FIGHTING MEASURES**

Flash Point	No data available
Ignition temperature	No data available
Extinguishing Media	Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

Fire Fighting Equipment 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.

### Methods for clean up

Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Handling Procedures** Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid prolonged or repeated exposure. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Ethylene oxide may collect in container head space. Provide adequate ventilation when accessing or working with open containers and tanks.

**Storage Procedures** Store in tightly sealed containers. Store in an area that is dry, well-ventilated, away from ignition sources, away from incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal Protective Equipment

#### Respiratory protection

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or ECN (EU).

#### Hand protection

Use protective gloves for prolonged or repeated contact.

#### Eye protection

Safety glasses

#### Hygiene measures

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	clear, liquid
Color	colorless

### Safety data

pH	No data available
Melting point	33°C (91°F)
Boiling point	No data available
Flash point	No data available
Ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Density	1.004g/cm <sup>3</sup>
Water solubility	No data available

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – carbon 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 probable, 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

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

### 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.

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

No data available

### Ecotoxicity effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations.

**Contaminated packaging**  
Dispose of 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 or NDSL lists:  
3,6,9,12,15,18,21,24,27-Nonaoxanonatriacontan-1-ol CAS No. 3055-99-0

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

**SARA 313 Components**  
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.

**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**  
3,6,9,12,15,18,21,24,27-Nonaoxanonatriacontan-1-ol CAS No. 3055-99-0

**New Jersey Right to Know Components**  
3,6,9,12,15,18,21,24,27-Nonaoxanonatriacontan-1-ol CAS No. 3055-99-0

**California Prop. 65 Components**  
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, 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.