

**QED Bioscience Inc.**  
**Surf's Up® Surfactant Kit**  
**Surfactant No. 18 Tetronic®90R4**

**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 **Tetronic®90R4**  
Product Name Ethylenediamine tetrakis (ethoxylate-block-propoxylate) tetrol

**2. COMPOSITION**

Ingredient Name Ethylenediamine tetrakis (ethoxylate-block-propoxylate) tetrol CAS Number 26316-40-5

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

**OSHA Hazards:** No known OSHA hazards

HAZARD RATINGS	HMIS	NFPA
Health	0	0
Flammability	1	1
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 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. If symptoms persist, seek immediate medical attention.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media** Water, alcohol-resistant foam, dry chemical, or carbon dioxide.  
**Fire Fighting Equipment/Instructions** Wear self-contained breathing apparatus if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.  
**Environmental Precautions** Do not let product enter drains.  
**Clean-up Methods** Soak up with inert absorbent material and dispose of as hazardous waste. 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. Normal measures for preventive fire protection.

**Storage Procedures** Keep in a tightly closed container in a dry and well-ventilated area. Containers which are opened must be resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Does not contain substances with occupational exposure limit values.

**Engineering Controls** Use local exhaust ventilation.

**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 for vapors should be worn. Eye wash fountain and emergency showers are recommended. Wash contaminated clothing before reuse. Discard contaminated shoes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	113°C (235°F) Method: closed cup
Melting Point	21°C (70°F)
Boiling Point	No data available
Ignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Density	1.05g/cm <sup>3</sup> at 25°C (77°F)
pH	No data available
Water Solubility	No data available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Incompatibility	Strong oxidizing agents
Hazardous Decomposition	Carbon oxides, nitrogen oxides

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity, Skin corrosion/irritation, Serious eye damage/eye irritation, Respiratory or skin sensitization, Germ cell mutagenicity, Reproductive toxicity, Aspiration hazard:** No data available

### **Carcinogenicity**

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.

### **Specific target organ toxicity – single exposure**

Inhalation – may cause respiratory irritation.

### **Specific target organ toxicity – repeated exposure**

No data available

**Signs and symptoms of exposure**

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

**12. ECOLOGICAL INFORMATION**

**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**

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

**SARA 302 Components**

No chemicals in this product 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 (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**

Enthylenediamine tetrakis (ethoxylate-block-propoxylate) tetrol CAS No. 26316-40-5

**New Jersey Right to Know Components**

Enthylenediamine tetrakis (ethoxylate-block-propoxylate) tetrol CAS No. 26316-40-5

**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 harm.

**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.