

## Material Safety Data Sheet

### 1. Gemini® Fluoro Surfactant BH-15W

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration %
Perfluoroalkyl polyoxyethylene ether		10
1,4-Dioxane	123-91-1	<0.1
Ethylene glycol butyl ether	111-76-2	89-90

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

Inhalation of vapor or mist may cause nasal,throat or long irritation. Inhalation of large amounts of respirable particles maybe toxic to the lungs. Symptoms maybe modest initially, follow in hours by severe shortness of breath requiring prompt medical attention. Repeated or prolonged inhalation exposure may cause central nervous system depression with dizziness,confusion,incoodination,drowsiness or unconsciousness. Gross overexposure may cause fatality.

#### Potential Health Effects

Skin : May cause: slight irritation, Redness.

Eyes : May cause eye irritation. Discomfort, tearing, Blurred vision.

#### Carcinogenicity

1,4-Dioxane is listed by IARC, NTP, or OSHA, as a carcinogen.

### 4. FIRST AID MEASURES

#### First Aid

##### INGESTION

Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

#### **INHALATION**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

#### **SKIN CONTACT**

In case of contact, wash with water and soap as a precaution.

#### **EYE CONTACT**

In case of contact, rinse with plenty of water. If eye irritation persists, consult a specialist.

General advice, when symptoms persist or in all cases of doubt seek medical advice.

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## **5. FIRE FIGHTING MEASURES**

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#### **Flash point**

67 °C (153 °F)

#### **Thermal decomposition**

200 °C (392 °F)

#### **Extinguishing Media**

The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Fire Fighting Instructions**

Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.

Standard procedure for chemical fires.

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## **6. ACCIDENTAL RELEASE MEASURES**

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#### **Spill Clean Up**

Shovel into suitable container for disposal.

#### **Accidental Release Measures**

Prevent material from entering sewers, waterways, or low areas.

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## **7. HANDLING AND STORAGE**

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### **Handling (Personnel)**

Avoid breathing vapors or mist from overheated material. Avoid contact with eyes, skins, clothing. Wash thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used.

### **Storage**

Store in well ventilated place. Keep container closed to prevent contamination.

Freezing will affect physical condition but will not damage.

Thaw and mix before using, keep away from open flames and heated surfaces above 200 deg C (392 deg F).

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Engineering controls**

In the event that the polymer is heated above 200° C (392° F), local ventilation should be used to avoid exposure to fumes.

### **Personal protective equipment**

Respiratory: No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.

Hand: Additional protection: No particular glove type is recommended, but nitrile may used.

Eyes: Chemical safety goggles.

Skin and body protection : No PPE is specified however, avoid contact with skin, eyes, and clothing. Preventive skin protection.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : liquid at 20 °C(68 °F)

Color : amber or brown

pH : 11~12

Specific gravity : 1.0 at 24 °C (75 °F)

Water solubility : soluble

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## **10. STABILITY AND REACTIVITY**

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### **Stability**

Stable: stable under recommended storage conditions.

### Conditions to avoid

Decomposition temperature 200 °C (392°F)

### Polymerization

Polymerization will no occur.

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## 11. TOXICOLOGICAL INFORMATION

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### Gemini® Fluoro Surfactant BH-15W

Inhalation 4h, ALC : >1.8mg/l, rat

Skin LD50 : > 5,000 mg/kg , rat

Oral LD50 : > 5,000 mg/kg , rat

Skin irritation : slight irritation, rabbit

Eye irritation : slight irritation, rabbit

Sensitisation : Animal test did not cause sensitization by skin contact, guinea pig

### Perfluoroalkyl polyoxyethylene ether

Further information : The substance is a polymer and is not expected to produce toxic effects.

### Ethylene glycol butyl ether

Oral LD50 : 880 mg/kg , rat

Skin LD50 : >1000 mg/kg , rat

### 1,4-Dioxane

Inhalation : no toxicologically significant effects were found rat

Oral : no toxicologically significant effects were found rat

Carcinogenicity : Suspected human carcinogens

An increased incidence of tumours was observed in lab animals

Carcinogenicity : 1,4-Dioxane is listed by IARC, NTP, or OSHA, as a carcinogen.

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## 12. ECOLOGICAL INFORMATION

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### Aquatic Toxicity

96 hrs, LC50 : >12mg/l fathead minnow

72 hrs, ErC50 : >120mg/l green algae

48 hrs, EC50 : 4.72mg/l water flea

### Ethylene glycol butyl ether

96 hrs, LC50 : >1000mg/l killifish

72 hrs, EC50 : >1000mg/l green algae

48 hrs, EC50 : >1000mg/l water flea

### 1,4-Dioxane

96 hrs, LC50 : >100mg/l killifish

72 hrs, EC50 : >1000mg/l green algae  
48 hrs, EC50 : >1000mg/l water flea

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## 13. DISPOSAL CONSIDERATIONS

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### **Waste Disposal**

In accordance with local and national regulations.

### **Environmental Hazards**

Dispose of container properly.

If recycling is not practicable, dispose of in compliance with local regulations.

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## 14. TRANSPORTATION INFORMATION

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### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

NOT classified as dangerous in the meaning of transport regulations

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## 15. REGULATORY INFORMATION

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EPCRA: Emergency Planning and Community Right-to-Know

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does NOT contain any components with a section 304 EHS RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does NOT contain any components with a section 302 EHS TPQ

SARA 311/312 Hazards: NO SARA Hazards

SARA 313 Regulated Chemical(s): 1,4-Dioxane

CERCLA Reportable Quantity : 2,000 lbs , Based on the percentage composition of this chemical in the product.: 1,4-Dioxane



Updated: May 26th, 2017