



**MATERIAL SAFETY DATA SHEET**

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifiers**

Product name:

FluoSurf™ by Emulseo



**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Laboratory chemicals, Manufacture of substances

**1.3 Date of revision:**

2 April 2019

**1.4 Date of printing:**

30 April 2019

**1.5 Details of the supplier of the safety data sheet**

Company: Blacktrace Holdings

Ltd.

Unit 3 Anglian Business

Park

Royston

Hertfordshire

SG8 5TW

United Kingdom

Telephone: +44 (0)1763 242555

E-mail address: [info@dolomite-microfluidics.com](mailto:info@dolomite-microfluidics.com)

**1.6 Emergency telephone number**

Emergency Phone: +44 (0)1763 242555

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Not Classified

**2.2 Label elements**

Labelling according Regulation (EC) No 1272/2008 [CLP]

P264 Wash hands thoroughly after handling.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation occurs, get medical attention

.

**2.3 Other hazards – none**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**



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**3.1 Substances**

Type: polyhexafluoropropylene oxide-block-polypropylene glycol-block-polyethylene glycolblock-polypropylene glycol-block-polyhexafluoropropylene oxide

No.-CAS: None

No.-EC: None

**3.2 Mixtures**

Not applicable

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician if skin irritation occurs.

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**If swallowed**

Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

EYE CONTACT: No known symptoms

INHALATION: No known symptoms

EYES: Discomfort if first aid not administrated

INGESTION: Mild discomfort and possible reaction such as itching or redness

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

None

**5.3 Advice for firefighters**

No special precautions

**5.4 Further information**

No data available

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use individual protective equipment. Use gloves resistant to fluorinated solvent.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Mix with sand or vermiculite, transfer to a suitable container.

**6.4 Reference to other sections**

For Personal Protection, see section 8.

For disposal see section 13.

**7. HANDLING AND STORAGE**



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**7.1 Precautions for safe handling**

Avoid contact with eye and skin.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a well-ventilated place. Store away from heat. Moisture sensitive. Light sensitive.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Components with workplace control parameters**

None

**8.2 Exposure controls**

Engineering controls

Avoid contact with skin, eyes and clothing. Normal room ventilation is adequate

Respiratory protection

Not required for normal handling

Hand protection

Wear gloves suitable for fluorinated solvent. The gloves must be inspected prior to use.

Eye protection

Tightly fitting safety goggles

Skin protection

Handle with gloves resistant to fluorinated solvent

General hygiene considerations

Wash hands before breaks and immediately after handling the product.

Environmental exposure controls

Precautions should be taken to avoid accidental release of material to water courses.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance:	Form: clear, viscous liquid
	Colour: yellow
Odour	Odour unpleasant
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n octanol/water	No data available
Auto ignition temperature	No data available



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Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

**9.2 Other safety information**

No data available

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Functionally inert

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

Hazardous reaction will not occur

**10.4 Conditions to avoid**

No special precautions

**10.5 Incompatible materials**

None known

**10.6 Hazardous decomposition products**

None known

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

This product has not been tested. Judgements on the expected toxicity of this product have been made based

upon consideration of its major components.

**Acute toxicity**

Not classified

**Skin corrosion/irritation**

Estimated to be a slight irritant for skin. Not classified

**Serious eye damage/eye irritation**

Estimated to cause slight irritation to eyes. Not classified

**Respiratory or skin sensitization**

Not expected to be a skin sensitiser. Not classified

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

This chemical class is not known a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.

**Reproductive toxicity**

This chemical class is not known to be toxic for reproduction

**Specific target organ toxicity - single exposure**

This chemical class is not considered hazardous to organs

**Specific target organ toxicity - repeated exposure**

This chemical class is not considered hazardous to organs

**Aspiration hazard**

The solvents are of low viscosity, but not classified by supplier as Aspiration Toxic

**Additional Information**

**12. ECOLOGICAL INFORMATION**



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This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

### 12.1 Toxicity

This chemical class is not known to be toxic to aquatic organisms. The extremely low water solubility and high molecular weight will make exposure to aquatic organisms unlikely.

### 12.2 Persistence and degradability

Not considered to be biodegradable. Will persist.

### 12.3 Bioaccumulative potential

Not considered to be potentially bioaccumulative due to high molecular weight.

### 12.4 Mobility in soil

The product will not be mobile in the environment due to high molecular weight and low water solubility.

### 12.5 Results of PBT and vPvB assessment

The product is predicted to be persistent. It is not predicted to be bioaccumulate or toxic. No data available.

### 12.6 Other adverse effects

May be toxic to aquatic life

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Recover and recycle product if possible. If recovery and recycling are not possible disposal to waste water treatment may be possible if in accordance with local regulations.

#### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID:

IMDG:

IATA:

### 14.2 UN proper shipping name

ADR/RID: None Hazardous

IMDG: Non Hazardous

IATA: Non Hazardous

### 14.3 Transport hazard class(es)

ADR/RID:

IMDG:

IATA:

### 14.4 Packaging group

ADR/RID:

IMDG:

IATA:

### 14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

### 14.6 Special precautions for user

No data available

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.



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### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product. Chemical safety assessment has been performed on some of the components and no concerns noted in respect to the intended use of this product.

## 16. OTHER INFORMATION

### Further 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. Blacktrace Holdings Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.dolomite-microfluidics.com](http://www.dolomite-microfluidics.com) for additional terms and conditions of sale.