

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

|   |                                     |
|---|-------------------------------------|
| <b>Trade name or designation of the mixture</b> | OPTIFOG Smart Textile               |
| <b>Registration number</b>                      | -                                   |
| <b>Synonyms</b>                                 | OPTIFOG Smart Textile (white cloth) |
| <b>Issue date</b>                               | 17-September-2020                   |
| <b>Version number</b>                           | 01                                  |
| <b>Revision date</b>                            | -                                   |
| <b>Supersedes date</b>                          | -                                   |

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

|                             |  |
|-----------------------------|--|
| <b>Identified uses</b>      | Lens Cloth with substances which are intentionally released. Use as a standard lens cloth. |
| <b>Uses advised against</b> | None known.  |

**1.3. Details of the supplier of the safety data sheet**

|                                |  |
|--------------------------------|--|
| <b>Company name</b>            | ESSILOR International  |
| <b>Address</b>                 | 147, rue de Paris<br>94227 - Charenton-le-Pont – Cedex<br>France                                 |
| <b>Telephone</b>               | +33 (0) 1.49.77.42.24<br>+33 (0) 9.72.67.06.00   |
| <b>Contact person</b>          | Global EHS Department  |
| <b>E-mail</b>                  | responsiblesds@essilor.com   |
| <b>1.4 Emergency Telephone</b> | N°ORFILA +33 (0)1 45 42 59 59<br>Chemtrec +1-800-424-9300<br>+1-760-476-3961 Access Code: 334420 |

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Regulation (EC) No 1272/2008 as amended**

**Health hazards**

|  |                     |  |
|--|---------------------|--|
| Acute toxicity, oral                               | Category 4          | H302 - Harmful if swallowed.   |
| Specific target organ toxicity - repeated exposure | Category 2 (Spleen) | H373 - May cause damage to organs (Spleen) through prolonged or repeated exposure. |

**Environmental hazards**

|  |            |   |
|--|------------|---|
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 3 | H412 - Harmful to aquatic life with long lasting effects. |
|--|------------|---|

|                       |   |
|-----------------------|---|
| <b>Hazard summary</b> | Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects. The classification above is for the liquid which is absorbed onto the wipe. |
|-----------------------|---|

**2.2. Label elements**

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluorooctyl) ether

**Hazard pictograms**



**Signal word** Warning

**Hazard statements**

H302 Harmful if swallowed.

H373  
H412

May cause damage to organs (Spleen) through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

## Precautionary statements

### Prevention

P270 Do not eat, drink or smoke when using this product.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.

### Response

P314 Get medical advice/attention if you feel unwell.  
P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.  
P330 Rinse mouth.

### Storage

Not assigned.

### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** None.

**2.3. Other hazards** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name  | %     | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|--|-------|------------------|------------------------|-----------|-------|
| Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ether | >= 90 | 52550-44-4       | -                      | -         |       |

**Classification:** Acute Tox. 4;H302, STOT RE 2;H373, Aquatic Chronic 3;H412

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 4.1. Description of first aid measures

**Inhalation** Not relevant, due to the form of the product. However: Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Not relevant, due to the form of the product. In case of ingestion: If swallowed, seek medical advice immediately and show this container or label. Rinse mouth.

**4.2. Most important symptoms and effects, both acute and delayed** Direct contact with eyes may cause temporary irritation. Prolonged exposure may cause chronic effects. Prolonged skin contact may cause temporary irritation.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

**Suitable extinguishing media** Water spray. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** None known.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Water runoff can cause environmental damage.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Prevent product from entering drains.

Large Spills: Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Collect in suitable container for disposal.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

**7.3. Specific end use(s)** Lens Cloth with substances which are intentionally released. Use as a standard lens cloth.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines** None known.

### 8.2. Exposure controls

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** For general public not normally needed. Applicable for industrial settings only. If contact is likely, safety glasses with side shields are recommended.

#### Skin protection

**- Hand protection** For general public not normally needed. Applicable for industrial settings only. Wear appropriate chemical resistant gloves.

**- Other** For general public not normally needed. Applicable for industrial settings only. Wear suitable protective clothing.

**Respiratory protection** No personal respiratory protective equipment normally required.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| <b>Appearance</b>                                   | Cloth with substances which are intentionally released. |
| <b>Physical state</b>                               | Solid.  |
| <b>Form</b>   | Solid.  |
| <b>Colour</b>                                       | White.  |
| <b>Odour</b>  | Not available.  |
| <b>Odour threshold</b>                              | Not available.  |
| <b>pH</b>   | Not available.  |
| <b>Melting point/freezing point</b>                 | Not available.  |
| <b>Initial boiling point and boiling range</b>      | Not available.  |
| <b>Flash point</b>                                  | Not applicable.   |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not available.  |
| <b>Upper/lower flammability or explosive limits</b> |   |
| <b>Flammability limit - lower (%)</b>               | Not applicable.   |
| <b>Flammability limit - upper (%)</b>               | Not applicable.   |
| <b>Vapour pressure</b>                              | Not available.  |
| <b>Vapour density</b>                               | Not available.  |
| <b>Relative density</b>                             | Not available.  |
| <b>Solubility(ies)</b>                              | Not available.  |
| <b>Partition coefficient (n-octanol/water)</b>      | Not applicable.   |
| <b>Auto-ignition temperature</b>                    | Not applicable.   |
| <b>Decomposition temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Not available.  |
| <b>Explosive properties</b>                         | Not explosive.  |
| <b>Oxidising properties</b>                         | Not oxidising.  |
| <b>9.2. Other information</b>                       | No relevant additional information available.           |

## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| <b>10.1. Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>10.2. Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>10.3. Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>10.4. Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>10.5. Incompatible materials</b>             | Strong oxidising agents.  |
| <b>10.6. Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Not likely, due to the form of the product.   |
| <b>Skin contact</b> | Not expected to be a primary skin irritant.   |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.  |
| <b>Ingestion</b>    | Not relevant, due to the form of the product. However: Harmful if swallowed.  |
| <b>Symptoms</b>     | Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Prolonged exposure may cause chronic effects. |

### 11.1. Information on toxicological effects

**Acute toxicity** Not relevant, due to the form of the product in its manufactured and shipped state. However: Harmful if swallowed.

| Components   | Species   | Test Results        |
|--|---|---------------------|
| Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluorooctyl) ether (CAS 52550-44-4) |   |                     |
| <b>Acute</b>   |   |                     |
| <b>Dermal</b>  |   |                     |
| LD50   | Rat   | > 5000 mg/kg        |
| <b>Inhalation</b>  |   |                     |
| <i>dust/mist</i>   |   |                     |
| LC50   | Rat   | > 5.9 mg/l, 4 hours |
| <b>Oral</b>  |   |                     |
| LD50   | Rat   | 410 mg/kg           |
| <b>Skin corrosion/irritation</b>   | Based on available data, the classification criteria are not met.           |                     |
| <b>Serious eye damage/eye irritation</b>   | Due to partial or complete lack of data the classification is not possible. |                     |
| <b>Respiratory sensitisation</b>   | Based on available data, the classification criteria are not met.           |                     |
| <b>Skin sensitisation</b>  | Based on available data, the classification criteria are not met.           |                     |
| <b>Germ cell mutagenicity</b>  | Based on available data, the classification criteria are not met.           |                     |
| <b>Carcinogenicity</b>   | Due to partial or complete lack of data the classification is not possible. |                     |
| <b>Reproductive toxicity</b>   | Due to partial or complete lack of data the classification is not possible. |                     |
| <b>Specific target organ toxicity - single exposure</b>  | Due to partial or complete lack of data the classification is not possible. |                     |
| <b>Specific target organ toxicity - repeated exposure</b>                                      | May cause damage to organs (Spleen) through prolonged or repeated exposure. |                     |
| <b>Aspiration hazard</b>   | Due to the physical form of the product it is not an aspiration hazard.     |                     |
| <b>Mixture versus substance information</b>  | No information available.   |                     |
| <b>Other information</b>   | No other specific acute or chronic health impact noted.                     |                     |

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects.

| Components   | Species | Test Results                    |                     |
|--|---------|---------------------------------|---------------------|
| Polyethylene oxide, mono(3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluorooctyl) ether (CAS 52550-44-4) |         |                                 |                     |
| <b>Aquatic</b>   |         |                                 |                     |
| <i>Acute</i>   |         |                                 |                     |
| Algae  | EbC50   | Pseudokirchneriella subcapitata | 50.3 mg/l, 72 hours |
|  | ErC50   | Pseudokirchneriella subcapitata | 88.3 mg/l, 72 hours |
| Crustacea  | EC50    | Daphnia magna                   | 28.8 mg/l, 48 hours |
| Fish   | LC50    | Oncorhynchus mykiss             | 36.7 mg/l, 96 hours |

**12.2. Persistence and degradability** No data is available on the degradability of this product.

**12.3. Bioaccumulative potential** No data available for this product.

**Partition coefficient n-octanol/water (log Kow)** Not available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

|                                     |  |
|-------------------------------------|--|
| <b>Contaminated packaging</b>       | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.   |
| <b>EU waste code</b>                | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Disposal methods/information</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.   |

## SECTION 14: Transport information

### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

### RID

14.1. - 14.6.: Not regulated as dangerous goods.

### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended**  
Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**  
Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**  
Not listed.

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations** Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

### **List of abbreviations**

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
EC50: Effective Concentration 50%.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
LC50: Lethal Concentration 50%.  
LD50: Lethal Dose 50%.  
PBT: Persistent, bioaccumulative and toxic.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
NOEC: No observed effect concentration.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.  
vPvB: Very persistent and very bioaccumulative.  
ErC50: EC50 in terms of reduction of growth rate.  
EbC50: EC50 in terms of reduction of biomass  
ECHA: European Chemical Agency.

### **References**

#### **Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### **Full text of any H-statements not written out in full under Sections 2 to 15**

H302 Harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

### **Training information**

Follow training instructions when handling this material.

### **Disclaimer**

ESSILOR International cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.