



# Fortified Plexipave Ultra Light Blue - PLFLB

## ICP Construction Inc.

Version No: 4.5  
Safety Data Sheet according to OSHA HazCom Standard (2024) requirements

Initial Date: 03/13/2023  
Revision Date: 09/10/2025  
Print Date: 09/10/2025  
L.GHS.USA.EN

### SECTION 1 Identification

#### Product Identifier

|                               |  |
|-------------------------------|--|
| Product name                  | Fortified Plexipave Ultra Light Blue - PLFLB |
| Synonyms                      | Not Available                                |
| Other means of identification | Not Available                                |

#### Recommended use of the chemical and restrictions on use

|                          |                |
|--------------------------|----------------|
| Relevant identified uses | Sports Surface |
|--------------------------|----------------|

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |  |
|-------------------------|--|
| Registered company name | ICP Construction Inc.                                  |
| Address                 | 150 Dascomb Road Andover, MA 01810 United States       |
| Telephone               | 1-866-667-5119 1-978-623-9987                          |
| Fax                     | Not Available  |
| Website                 | <a href="http://www.icpgroup.com">www.icpgroup.com</a> |
| Email                   | sds@icpgroup.com                                       |

#### Emergency phone number

|                                     |                |
|-------------------------------------|----------------|
| Association / Organisation          | ChemTel        |
| Emergency telephone number(s)       | 1-800-255-3924 |
| Other emergency telephone number(s) | 1-813-248-0585 |

### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture

##### NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

|                |                             |
|----------------|-----------------------------|
| Classification | Carcinogenicity Category 1B |
|----------------|-----------------------------|

#### Label elements

|                     |  |
|---------------------|--|
| Hazard pictogram(s) |  |
|---------------------|--|

|             |        |
|-------------|--------|
| Signal word | Danger |
|-------------|--------|

#### Hazard statement(s)

|      |                   |
|------|-------------------|
| H350 | May cause cancer. |
|------|-------------------|

#### Hazard(s) not otherwise classified

Not Applicable

#### Precautionary statement(s) General

## Fortified Plexipave Ultra Light Blue - PLFLB

|      |   |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children.  |
| P103 | Read label before use.  |

### Precautionary statement(s) Prevention

|      |   |
|------|---|
| P201 | Obtain special instructions before use.                                   |
| P280 | Wear protective gloves and protective clothing.                           |
| P202 | Do not handle until all safety precautions have been read and understood. |

### Precautionary statement(s) Response

|           |   |
|-----------|---|
| P308+P313 | IF exposed or concerned: Get medical advice/ attention. |
|-----------|---|

### Precautionary statement(s) Storage

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

### Precautionary statement(s) Disposal

|      |  |
|------|--|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|--|

No further product hazard information.

## SECTION 3 Composition / information on ingredients

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No     | %[weight] | Name                                |
|------------|-----------|-------------------------------------|
| 107-21-1   | 1-5       | <u>ethylene glycol*</u>             |
| 13463-67-7 | 1-5       | <u>Titanium Dioxide TiO2</u>        |
| 14808-60-7 | 30-60     | <u>silica crystalline - quartz*</u> |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4 First-aid measures

### Description of first aid measures

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with water.</li> <li>▶ If irritation continues, seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>                    |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>  |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

### Most important symptoms and effects, both acute and delayed

See Section 11

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 Fire-fighting measures

### Extinguishing media

- ▶ Foam.
- ▶ Dry chemical powder.

### Special hazards arising from the substrate or mixture

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

### Special protective equipment and precautions for fire-fighters

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> </ul>  |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> </ul> <p>May emit poisonous fumes.<br/>May emit corrosive fumes.</p> |

## SECTION 6 Accidental release measures

## Fortified Plexipave Ultra Light Blue - PLFLB

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

### Methods and material for containment and cleaning up

|                     |   |
|---------------------|---|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Remove all ignition sources.</li> <li>▶ Clean up all spills immediately.</li> </ul>  |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

### Precautions for safe handling

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> </ul> |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> </ul>  |

### Conditions for safe storage, including any incompatibilities

|                                |  |
|--------------------------------|--|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Metal can or drum</li> <li>▶ Packaging as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul> |
| <b>Storage incompatibility</b> | None known   |



X — Must not be stored together

O — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

## SECTION 8 Exposure controls / personal protection

### Control parameters

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

| Source   | Ingredient                   | Material name                               | TWA                                      | STEL          | Peak          | Notes              |
|--|------------------------------|---|--|---------------|---------------|--------------------|
| US NIOSH Recommended Exposure Limits (RELs)          | ethylene glycol*             | Ethylene glycol                             | Not Available                            | Not Available | Not Available | See Appendix D     |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | Titanium Dioxide TiO2        | Titanium dioxide - Total dust               | 15 mg/m3                                 | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | Titanium Dioxide TiO2        | Inert or Nuisance Dust: Respirable fraction | 5 mg/m3 / 15 mppcf                       | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | Titanium Dioxide TiO2        | Inert or Nuisance Dust: Total Dust          | 15 mg/m3 / 50 mppcf                      | Not Available | Not Available | Not Available      |
| US NIOSH Recommended Exposure Limits (RELs)          | Titanium Dioxide TiO2        | Titanium dioxide                            | Not Available                            | Not Available | Not Available | Ca; See Appendix A |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | silica crystalline - quartz* | Quartz - respirable                         | 0.05 mg/m3                               | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | silica crystalline - quartz* | Silica: Crystalline: Quartz (Respirable)    | 10 (%SiO2+2) mg/m3 / 250 (%SiO2+5) mppcf | Not Available | Not Available | Not Available      |
| US NIOSH Recommended Exposure Limits (RELs)          | silica crystalline - quartz* | Silica, crystalline (as respirable dust)    | 0.05 mg/m3                               | Not Available | Not Available | Ca; See Appendix A |

#### Emergency Limits

| Ingredient                   | TEEL-1      | TEEL-2    | TEEL-3      |
|------------------------------|-------------|-----------|-------------|
| ethylene glycol*             | 30 ppm      | 150 ppm   | 900 ppm     |
| Titanium Dioxide TiO2        | 30 mg/m3    | 330 mg/m3 | 2,000 mg/m3 |
| silica crystalline - quartz* | 0.075 mg/m3 | 33 mg/m3  | 200 mg/m3   |


Continued...

## Fortified Plexipave Ultra Light Blue - PLFLB

| Ingredient                   | Original IDLH       | Revised IDLH  |
|------------------------------|---------------------|---------------|
| ethylene glycol*             | Not Available       | Not Available |
| Titanium Dioxide TiO2        | 5,000 mg/m3         | Not Available |
| silica crystalline - quartz* | 25 mg/m3 / 50 mg/m3 | Not Available |

## MATERIAL DATA

## Exposure controls

|  |  |
|--|--|
| <b>Appropriate engineering controls</b>                                      | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.   |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye and face protection</b>   | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> </ul>   |
| <b>Skin protection</b>   | See Hand protection below  |
| <b>Hands/feet protection</b>   | <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> </ul> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p>  |
| <b>Body protection</b>   | See Other protection below   |
| <b>Other protection</b>  | <ul style="list-style-type: none"> <li>▶ Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]</li> <li>▶ Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges.</li> <li>▶ Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels.</li> <li>▶ Overalls.</li> <li>▶ P.V.C apron.</li> </ul> |

## Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

## SECTION 9 Physical and chemical properties

## Information on basic physical and chemical properties

|   |                |  |               |
|---|----------------|--|---------------|
| <b>Appearance</b>                                     | Not Available  |  |               |
| <b>Physical state</b>                                 | Liquid         | <b>Relative density (Water = 1)</b>                        | Not Available |
| <b>Odour</b>  | Not Available  | <b>Partition coefficient n-octanol / water</b>             | Not Available |
| <b>Odour threshold</b>                                | Not Available  | <b>Auto-ignition temperature (°C)</b>                      | Not Available |
| <b>pH (as supplied)</b>                               | Not Available  | <b>Decomposition temperature (°C)</b>                      | Not Available |
| <b>Melting point / freezing point (°C)</b>            | Not Available  | <b>Viscosity (cSt)</b>                                     | Not Available |
| <b>Initial boiling point and boiling range (°C)</b>   | Not Available  | <b>Molecular weight (g/mol)</b>                            | Not Available |
| <b>Flash point (°C)</b>                               | >130           | <b>Taste</b>   | Not Available |
| <b>Evaporation rate</b>                               | Not Available  | <b>Explosive properties</b>                                | Not Available |
| <b>Flammability</b>                                   | Not Applicable | <b>Oxidising properties</b>                                | Not Available |
| <b>Upper Explosive Limit (%)</b>                      | Not Available  | <b>Surface Tension (dyn/cm or mN/m)</b>                    | Not Available |
| <b>Lower Explosive Limit (%)</b>                      | Not Available  | <b>Volatile Component (%vol)</b>                           | Not Available |
| <b>Vapour pressure (kPa)</b>                          | Not Available  | <b>Gas group</b>   | Not Available |
| <b>Solubility in water</b>                            | Immiscible     | <b>pH as a solution (1%)</b>                               | Not Available |
| <b>Vapour density (Air = 1)</b>                       | Not Available  | <b>VOC g/L</b>   | 88.98         |
| <b>Heat of Combustion (kJ/g)</b>                      | Not Available  | <b>Ignition Distance (cm)</b>                              | Not Available |
| <b>Flame Height (cm)</b>                              | Not Available  | <b>Flame Duration (s)</b>                                  | Not Available |
| <b>Enclosed Space Ignition Time Equivalent (s/m3)</b> | Not Available  | <b>Enclosed Space Ignition Deflagration Density (g/m3)</b> | Not Available |
| <b>Nanoform Solubility</b>                            | Not Available  | <b>Nanoform Particle Characteristics</b>                   | Not Available |
| <b>Particle Size</b>                                  | Not Available  |  |               |

Continued...

## Fortified Plexipave Ultra Light Blue - PLFLB

## SECTION 10 Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | See section 7  |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7  |
| <b>Conditions to avoid</b>                | See section 7  |
| <b>Incompatible materials</b>             | See section 7  |
| <b>Hazardous decomposition products</b>   | See section 5  |

## SECTION 11 Toxicological information

## Information on toxicological effects

|   |  |
|---|--|
| <b>a) Acute Toxicity</b>                    | Based on available data, the classification criteria are not met.      |
| <b>b) Skin Irritation/Corrosion</b>         | Based on available data, the classification criteria are not met.      |
| <b>c) Serious Eye Damage/Irritation</b>     | Based on available data, the classification criteria are not met.      |
| <b>d) Respiratory or Skin sensitisation</b> | Based on available data, the classification criteria are not met.      |
| <b>e) Mutagenicity</b>                      | Based on available data, the classification criteria are not met.      |
| <b>f) Carcinogenicity</b>                   | There is sufficient evidence to classify this material as carcinogenic |
| <b>g) Reproductivity</b>                    | Based on available data, the classification criteria are not met.      |
| <b>h) STOT - Single Exposure</b>            | Based on available data, the classification criteria are not met.      |
| <b>i) STOT - Repeated Exposure</b>          | Based on available data, the classification criteria are not met.      |
| <b>j) Aspiration Hazard</b>                 | Based on available data, the classification criteria are not met.      |

|                     |  |
|---------------------|--|
| <b>Inhaled</b>      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  |
| <b>Ingestion</b>    | The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.   |
| <b>Skin Contact</b> | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.  |
| <b>Eye</b>          | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).   |
| <b>Chronic</b>      | Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.<br>Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism.<br>On the basis, primarily, of animal experiments, the material may be regarded as carcinogenic to humans. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in cancer on the basis of:<br>- appropriate long-term animal studies<br>- other relevant information |

|   |   |  |
|---|---|--|
| <b>Fortified Plexipave Ultra Light Blue - PLFLB</b> | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|   | Not Available   | Not Available  |
| <b>ethylene glycol*</b>                             | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|   | Dermal (rabbit) LD50: 9530 mg/kg <sup>[2]</sup>                     | Eye (Rodent - rabbit): 0.012ppm/3D                               |
|   | Inhalation (Human) TClO: 10000 mg/m <sup>3</sup> <sup>[2]</sup>     | Eye (Rodent - rabbit): 100mg/1H - Mild                           |
|   | Inhalation (Rat) LC50: 50100 mg/m <sup>3</sup> /8 hr <sup>[2]</sup> | Eye (Rodent - rabbit): 1440mg/6H - Moderate                      |
|   | Oral (child) TDLo: 5500 mg/kg <sup>[2]</sup>                        | Eye (Rodent - rabbit): 500mg/24H - Mild                          |
|   | Oral (Human)LDLo: 398 mg/kg <sup>[2]</sup>                          | Eye (Rodent - rat): 0.012%/3D                                    |
|   | Oral (Rat) LD50: 4700 mg/kg <sup>[2]</sup>                          | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|   |   | Skin (Rodent - rabbit): 555mg - Mild                             |
|   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>    |  |
| <b>Titanium Dioxide TiO2</b>                        | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|   | dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup>                 | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|   | Inhalation (Rat) LC50: >2.28 mg/l4h <sup>[1]</sup>                  | Skin (Human): 300ug/3D (intermittent) - Mild                     |
|   | Oral (Rat) LD50: >=2000 mg/kg <sup>[1]</sup>                        | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |

## Fortified Plexipave Ultra Light Blue - PLFLB

| silica crystalline - quartz* | TOXICITY  | IRRITATION    |
|------------------------------|---|---------------|
|                              | Inhalation (Human)LCLo: 0.3 mg/m3/10Y <sup>[2]</sup>      | Not Available |
|                              | Inhalation (Human)TCLo: 16 mppcf*/8H/17.9Y <sup>[2]</sup> |               |
|                              | Inhalation (Rat)TCLo: 50 mg/m3/6H/71W <sup>[2]</sup>      |               |

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|   |  |
|---|--|
| <b>Fortified Plexipave Ultra Light Blue - PLFLB</b> | The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.   |
| <b>ethylene glycol*</b>                             | [Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells.<br>For ethylene glycol:<br>Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow.   |
| <b>silica crystalline - quartz*</b>                 | <b>WARNING:</b> For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: <b>CARCINOGENIC TO HUMANS</b><br>The International Agency for Research on Cancer (IARC) has classified occupational exposures to <b>respirable</b> (<5 um) crystalline silica as being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. |

|  |   |                                 |   |
|--|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ✗ | <b>Carcinogenicity</b>          | ✓ |
| <b>Skin Irritation/Corrosion</b>         | ✗ | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>     | ✗ | <b>STOT - Single Exposure</b>   | ✗ |
| <b>Respiratory or Skin sensitisation</b> | ✗ | <b>STOT - Repeated Exposure</b> | ✗ |
| <b>Mutagenicity</b>                      | ✗ | <b>Aspiration Hazard</b>        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
✓ – Data available to make classification

## SECTION 12 Ecological information

| Toxicity  |  |                           |                               |                |               |
|---|--|---------------------------|-------------------------------|----------------|---------------|
| <b>Fortified Plexipave Ultra Light Blue - PLFLB</b> | <b>Endpoint</b>  | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>   | <b>Source</b> |
|   | Not Available  | Not Available             | Not Available                 | Not Available  | Not Available |
| <b>ethylene glycol*</b>                             | <b>Endpoint</b>  | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>   | <b>Source</b> |
|   | EC50   | 48h                       | Crustacea                     | >100mg/l       | 2             |
|   | EC50(ECx)  | Not Available             | Algae or other aquatic plants | 6500-7500mg/l  | 1             |
|   | EC50   | 96h                       | Algae or other aquatic plants | 6500-13000mg/l | 1             |
|   | LC50   | 96h                       | Fish                          | 8050mg/L       | 4             |
| <b>Titanium Dioxide TiO2</b>                        | <b>Endpoint</b>  | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>   | <b>Source</b> |
|   | BCF  | 1008h                     | Fish                          | <1.1-9.6       | 7             |
|   | EC50   | 72h                       | Algae or other aquatic plants | 3.75-7.58mg/l  | 4             |
|   | EC50   | 48h                       | Crustacea                     | 1.9mg/l        | 2             |
|   | NOEC(ECx)  | 672h                      | Fish                          | >=0.004mg/L    | 2             |
|   | EC50   | 96h                       | Algae or other aquatic plants | 179.05mg/l     | 2             |
|   | LC50   | 96h                       | Fish                          | 1.85-3.06mg/l  | 4             |
| <b>silica crystalline - quartz*</b>                 | <b>Endpoint</b>  | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>   | <b>Source</b> |
|   | Not Available  | Not Available             | Not Available                 | Not Available  | Not Available |
| <b>Legend:</b>                                      | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                           |                               |                |               |

**DO NOT** discharge into sewer or waterways.

## Persistence and degradability

| Ingredient            | Persistence: Water/Soil | Persistence: Air          |
|-----------------------|-------------------------|---------------------------|
|                       | ethylene glycol*        | LOW (Half-life = 24 days) |
| Titanium Dioxide TiO2 | HIGH                    | HIGH                      |

## Bioaccumulative potential

Continued...

## Fortified Plexipave Ultra Light Blue - PLFLB

| Ingredient            | Bioaccumulation |
|-----------------------|-----------------|
| ethylene glycol*      | LOW (BCF = 200) |
| Titanium Dioxide TiO2 | LOW (BCF = 10)  |

## Mobility in soil

| Ingredient            | Mobility              |
|-----------------------|-----------------------|
| ethylene glycol*      | HIGH (Log KOC = 1)    |
| Titanium Dioxide TiO2 | LOW (Log KOC = 23.74) |

## Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

## SECTION 13 Disposal considerations

## Waste treatment methods

|                              |  |
|------------------------------|--|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>▶ Containers may still present a chemical hazard/ danger when empty.</li> <li>▶ Return to supplier for reuse/ recycling if possible.</li> </ul> <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.</p> <ul style="list-style-type: none"> <li>▶ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Management Authority for disposal.</li> </ul> |
|------------------------------|--|

## SECTION 14 Transport information

## Labels Required

|                  |    |
|------------------|----|
| Marine Pollutant | NO |
|------------------|----|

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## 14.7. Maritime transport in bulk according to IMO instruments

## 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                 | Group         |
|------------------------------|---------------|
| ethylene glycol*             | Not Available |
| Titanium Dioxide TiO2        | Not Available |
| silica crystalline - quartz* | Not Available |

## 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name                 | Ship Type     |
|------------------------------|---------------|
| ethylene glycol*             | Not Available |
| Titanium Dioxide TiO2        | Not Available |
| silica crystalline - quartz* | Not Available |

## SECTION 15 Regulatory information

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

## ethylene glycol\* is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List  
 US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants  
 US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity  
 US - California Proposition 65 - Reproductive Toxicity  
 US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List  
 US - Massachusetts - Right To Know Listed Chemicals  
 US - New Jersey Right to Know Hazardous Substances  
 US - Pennsylvania - Hazardous Substance List  
 US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)  
 US Clean Air Act - Hazardous Air Pollutants  
 US DOE Temporary Emergency Exposure Limits (TEELs)  
 US EPA Integrated Risk Information System (IRIS)  
 US EPA Pesticide Chemical Search - Antimicrobial  
 US EPCRA Section 313 Chemical List  
 US New York City Community Right-to-Know: List of Hazardous Substances  
 US NIOSH Recommended Exposure Limits (RELs)

Continued...

## Fortified Plexipave Ultra Light Blue - PLFLB

### US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### Titanium Dioxide TiO2 is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List  
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs  
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans  
 International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
 US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5  
 US - California Proposition 65 - Carcinogens  
 US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List  
 US - Massachusetts - Right To Know Listed Chemicals  
 US - New Jersey Right to Know Hazardous Substances  
 US - Pennsylvania - Hazardous Substance List  
 US DOE Temporary Emergency Exposure Limits (TEELs)  
 US New York City Community Right-to-Know: List of Hazardous Substances  
 US NIOSH Recommended Exposure Limits (RELs)  
 US OSHA Permissible Exposure Limits (PELs) Table Z-1  
 US OSHA Permissible Exposure Limits (PELs) Table Z-3  
 US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### silica crystalline - quartz\* is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List  
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs  
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans  
 US - California Proposition 65 - Carcinogens  
 US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List  
 US - Massachusetts - Right To Know Listed Chemicals  
 US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens  
 US - New Jersey Right to Know Hazardous Substances  
 US - Pennsylvania - Hazardous Substance List  
 US DOE Temporary Emergency Exposure Limits (TEELs)  
 US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens  
 US NIOSH Recommended Exposure Limits (RELs)  
 US OSHA Carcinogens Listing  
 US OSHA Permissible Exposure Limits (PELs) Table Z-1  
 US OSHA Permissible Exposure Limits (PELs) Table Z-3  
 US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### Additional Regulatory Information

Not Applicable

#### Federal Regulations

##### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Section 311/312 hazard categories

|  |     |
|--|-----|
| Flammable (Gases, Aerosols, Liquids, or Solids)              | No  |
| Gas under pressure   | No  |
| Explosive  | No  |
| Self-heating   | No  |
| Pyrophoric (Liquid or Solid)                                 | No  |
| Pyrophoric Gas   | No  |
| Corrosive to metal   | No  |
| Oxidizer (Liquid, Solid or Gas)                              | No  |
| Organic Peroxide   | No  |
| Self-reactive  | No  |
| In contact with water emits flammable gas                    | No  |
| Combustible Dust   | No  |
| Carcinogenicity  | Yes |
| Acute toxicity (any route of exposure)                       | No  |
| Reproductive toxicity  | No  |
| Skin Corrosion or Irritation                                 | No  |
| Respiratory or Skin Sensitization                            | No  |
| Serious eye damage or eye irritation                         | No  |
| Specific target organ toxicity (single or repeated exposure) | No  |
| Aspiration Hazard  | No  |
| Germ cell mutagenicity                                       | No  |
| Simple Asphyxiant  | No  |
| Hazards Not Otherwise Classified                             | No  |

Continued...

## Fortified Plexipave Ultra Light Blue - PLFLB

## US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

| Name             | Reportable Quantity in Pounds (lb) | Reportable Quantity in kg |
|------------------|------------------------------------|---------------------------|
| ethylene glycol* | 5000                               | 2270                      |

## US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

| CAS No   | %[weight] | Name             |
|----------|-----------|------------------|
| 107-21-1 | 1-5       | ethylene glycol* |

*This information must be included in all SDSs that are copied and distributed for this material.*

## Additional Federal Regulatory Information

Not Applicable

## State Regulations

## US. California Proposition 65

**WARNING:** This product can expose you to chemicals including **Titanium Dioxide Ti02, silica crystalline - quartz\***, which are known to the State of California to cause cancer, and **ethylene glycol\***, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Additional State Regulatory Information

Not Applicable

## National Inventory Status

| National Inventory                                | Status  |
|---|---|
| Australia - AIIC / Australia Non-Industrial Use   | Yes   |
| Canada - DSL                                      | Yes   |
| Canada - NDSL                                     | No (ethylene glycol*; Titanium Dioxide Ti02; silica crystalline - quartz*)  |
| China - IECSC                                     | Yes   |
| Europe - EINEC / ELINCS / NLP                     | Yes   |
| Japan - ENCS                                      | Yes   |
| Korea - KECI                                      | Yes   |
| New Zealand - NZIoC                               | Yes   |
| Philippines - PICCS                               | Yes   |
| USA - TSCA  | All chemical substances in this product have been designated as TSCA Inventory 'Active'   |
| Taiwan - TCSI                                     | Yes   |
| Mexico - INSQ                                     | Yes   |
| Vietnam - NCI                                     | Yes   |
| Russia - FBEPH                                    | Yes   |
| UAE - Control List (Banned/Restricted Substances) | No (ethylene glycol*; Titanium Dioxide Ti02; silica crystalline - quartz*)  |
| <b>Legend:</b>                                    | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

## SECTION 16 Other information

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 09/10/2025 |
| <b>Initial Date</b>  | 03/13/2023 |

## CONTACT POINT

\*\*PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

## SDS Version Summary

| Version | Date of Update | Sections Updated  |
|---------|----------------|---|
| 3.5     | 09/10/2025     | Hazards identification - Classification, Ecological Information - Environmental, Composition / information on ingredients - Ingredients |

## Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

## Definitions and abbreviations

- ▶ PC - TWA: Permissible Concentration-Time Weighted Average
- ▶ PC - STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit,
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor

Continued...

**Fortified Plexipave Ultra Light Blue - PLFLB**

- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ MARPOL: International Convention for the Prevention of Pollution from Ships
- ▶ IMSBC: International Maritime Solid Bulk Cargoes Code
- ▶ IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
  
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European Inventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Powered by AuthorITe, from Chemwatch.