

**1. Identification****Product identifier** L/F REINFORCING MAT**Other means of identification** None.**Recommended use** Not available.**Recommended restrictions** None known.**Manufacturer/Importer/Supplier/Distributor information****Company Name** Armor Limited, Inc.  
**Address** 2410 US-15 South, Sumter, SC 29150**After hours telephone number** 1-877-982-7667**Normal work hours telephone number** 1-877-982-7667**Website** www.armor-inc.com**E-mail** customerservice@armor-inc.com**Emergency 24-hour telephone number** CHEMTREC North America: +1-800-424-9300, International: +1-703-527-3887**Information on operation hours** 8:00 a.m. to 5:00 p.m.**2. Hazard(s) identification****Hazards for the product as sold****Physical hazards** Not classified.**Health hazards** Specific target organ toxicity, single exposure Category 3 respiratory tract irritation**Environmental hazards** Not classified.**OSHA defined hazards** Not classified.**Label elements****Signal word** Warning**Hazard statement** May cause respiratory irritation.**Precautionary statement****Prevention** Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.**Response** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.**Hazard(s) not otherwise classified (HNOC)** Causes mild skin irritation.**Supplemental information** None.**3. Composition/information on ingredients****Mixtures**

| Chemical name                | Common name and synonyms | CAS No./Unique ID | %     |
|------------------------------|--------------------------|-------------------|-------|
| Glass, oxide, chemicals      |                          | 65997-17-3        | < 100 |
| SILANE COUPLING AGENTS       |                          | N/A               | < 0.5 |
| WERNER CHROME COMPLEX (Cr3+) |                          | N/A               | < 0.5 |

#### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.   |
| <b>Skin contact</b>   | Wash with plenty of soap and water. Take off immediately all contaminated clothing. Wash clothing separately before reuse. Get medical attention if irritation develops and persists.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. DO NOT rub or scratch eyes. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Irritation of eyes and mucous membranes. Mild skin irritation. Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic effects.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.  |
| <b>General information</b>  | IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.   |

#### 5. Fire-fighting measures

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| <b>Suitable extinguishing media</b>                                  | Water. Dry powder. Foam.   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Not a fire hazard. No unusual fire or explosion hazards noted.   |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| <b>Fire fighting equipment/instructions</b>                          | 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.          |
| <b>Specific methods</b>  | Move container from fire area if it can be done without risk. In the event of fire, cool tanks with water spray.   |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

#### 6. Accidental release measures

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|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Avoid contact with skin and eyes. Avoid generation and spreading of dust. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | Avoid dust formation. The product is immiscible with water and will sediment in water systems. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Stop the flow of material, if this is without risk. Do not create a powder cloud by using a brush or compressed air. Following product recovery, flush area with water. After cleaning, flush away traces with water. For waste disposal, see section 13 of the SDS. Avoid dry sweeping. Take up mechanically, placing in appropriate containers for disposal. The product is insoluble in water. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

#### 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Keep formation of airborne dusts to a minimum. Avoid breathing vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Do not use in areas without adequate ventilation. Use personal protective equipment as required. Wash hands thoroughly after handling. Avoid release to the environment. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep away from heat, sparks and open flame. Store in tightly closed container. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS).  |

## 8. Exposure controls/personal protection

|  |  |
|--|--|
| <b>Occupational exposure limits</b>  | This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.   |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls</b>                                      | Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Local exhaust ventilation should be provided at areas of cutting, milling, or other similar processing to remove airborne dust and fibers.                       |
| <b>Individual protection measures, such as personal protective equipment</b> |  |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection</b>   |  |
| <b>Hand protection</b>   | Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.  |
| <b>Other</b>   | Avoid contact with the skin. Wear appropriate chemical resistant clothing. Wear protective gloves. Wear long-sleeved shirt and long pants.   |
| <b>Respiratory protection</b>  | In case of insufficient ventilation, wear suitable respiratory equipment.  |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b>  | Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. |

## 9. Physical and chemical properties

|   |                    |
|---|--------------------|
| <b>Physical state</b>   | Solid.             |
| <b>Form</b>   | Solid.             |
| <b>Color</b>  | White              |
| <b>Odor</b>   | Odorless.          |
| <b>Melting point/freezing point</b>                             | >1472 °F (>800 °C) |
| <b>Boiling point or initial boiling point and boiling range</b> | Not available.     |
| <b>Flammability</b>   | Not available.     |
| <b>Upper/lower flammability or explosive limits</b>             |                    |
| <b>Explosive limit - lower (%)</b>                              | Not available.     |
| <b>Explosive limit - upper (%)</b>                              | Not available.     |
| <b>Flash point</b>  | Not available.     |
| <b>Auto-ignition temperature</b>                                | Not available.     |
| <b>Decomposition temperature</b>                                | Not available.     |
| <b>pH</b>   | Not available.     |
| <b>Kinematic viscosity</b>                                      | Not available.     |
| <b>Solubility</b>   |                    |
| <b>Solubility (water)</b>                                       | Insoluble          |
| <b>Partition coefficient (n-octanol/water)</b>                  | Not available.     |
| <b>Vapor pressure</b>   | Not available.     |
| <b>Density and/or relative density</b>                          |                    |
| <b>Relative density</b>   | > 2.4 - < 2.7      |
| <b>Vapor density</b>  | Not available.     |
| <b>Particle characteristics</b>                                 | Not available.     |
| <b>Other information</b>  |                    |
| <b>Explosive properties</b>                                     | Not explosive.     |
| <b>Oxidizing properties</b>                                     | Not oxidizing.     |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.   |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Avoid high temperatures. Avoid conditions which create dust. Contact with incompatible materials.   |
| <b>Incompatible materials</b>             | None known.   |
| <b>Hazardous decomposition products</b>   | Small quantities of undermined hazardous decomposition products may be released in case of heat exposure or during a fire. Fiberglass products may release small amounts of acetic acid and other organic materials at elevated temperatures. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation. |
| <b>Skin contact</b> | May be irritating to the skin.   |
| <b>Eye contact</b>  | May be irritating to eyes.   |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard. May cause discomfort if swallowed.                  |

**Symptoms related to the physical, chemical and toxicological characteristics** Exposure may cause temporary irritation, redness, or discomfort. Dusts may irritate the respiratory tract, skin and eyes. Dermal. Inhalation.

### Information on toxicological effects

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | Not known. Not classified.   |
| <b>Skin corrosion/irritation</b>         | Causes mild skin irritation.   |
| <b>Serious eye damage/eye irritation</b> | May be irritating to eyes.   |
| <b>Respiratory or skin sensitization</b> |  |
| <b>Respiratory sensitization</b>         | Not a respiratory sensitizer.  |
| <b>Skin sensitization</b>                | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>            | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                   | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

|   |   |
|---|---|
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.        |
| <b>Specific target organ toxicity - single exposure</b>   | May cause respiratory irritation.   |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.   |
| <b>Aspiration hazard</b>                                  | Not an aspiration hazard.   |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. Not expected to be hazardous by OSHA criteria. |

## 12. Ecological information

|                                      |   |
|--------------------------------------|---|
| <b>Ecotoxicity</b>                   | Not expected to be harmful to aquatic organisms.  |
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.  |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

### 13. Disposal considerations

|  |   |
|--|---|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.                |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.  |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Not applicable.  |
| <b>Waste from residues / unused products</b> | 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). Avoid discharge into water courses or onto the ground. |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.  |

### 14. Transport information

|   |                                   |
|---|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b>   | Not regulated as dangerous goods. |
| <b>IMDG</b>   | Not regulated as dangerous goods. |
| <b>Transport in bulk according to IMO instruments</b> | Not applicable.                   |

### 15. Regulatory information

|   |   |
|---|---|
| <b>US federal regulations</b>   | All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This SDS complies with the OSHA Hazard Communication Standard (29 CFR § 1910.1200), as amended in the final rule published May 20, 2024. |
| <b>Toxic Substances Control Act (TSCA)</b>  | One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".  |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>                    | Not regulated.  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                                   | Not listed.   |
| <b>SARA 304 Emergency release notification</b>  | Not regulated.  |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b>                   | Not listed.   |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>                      |   |
| <b>SARA 302 Extremely hazardous substance</b>   | Not listed.   |
| <b>SARA 311/312 Hazardous chemical</b>  | Yes   |
| <b>Classified hazard categories</b>   | Specific target organ toxicity (single or repeated exposure)  |
| <b>SARA 313 (TRI reporting)</b>   | Not regulated.  |
| <b>Other federal regulations</b>  |   |
| <b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>             | Not regulated.  |
| <b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b> | Not regulated.  |
| <b>Safe Drinking Water Act (SDWA)</b>   | Not regulated.  |

## US state regulations

### California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                   | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 09-09-2025

**Version #** 01

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**References**  
ACGIH  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices  
EPA: AQUIRE database  
IARC Monographs. Overall Evaluation of Carcinogenicity  
National Toxicology Program (NTP) Report on Carcinogens  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents

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