

# Safety Data Sheet

Forbo L910W  
Revision Number 1

Revision Date 03-May-2019  
Supersedes Date: 03-May-2019

## 1. Identification

### 1.1. Product Identifier

Product Name Forbo L910W

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

Recommended use Adhesives.  
Uses advised against No information available

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

#### Responsible Party

Forbo Flooring NA  
Humbolt Industrial Park  
8 Maplewood Drive  
Hazelton, PA 18202 USA  
Phone: +1 (800) 842-7839

### 1.4. Emergency telephone number

Phone: +1 (800) 842-7839

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

|                       |            |
|-----------------------|------------|
| Reproductive toxicity | Category 2 |
|-----------------------|------------|

### 2.2. Label Elements

## EMERGENCY OVERVIEW

#### Warning

#### Hazard statements

Suspected of damaging fertility or the unborn child



Appearance Paste

Physical State Liquid

Odor No information available

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## Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required

## Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

## Precautionary Statements - Storage

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not applicable

## Unknown acute toxicity

48 % of the mixture consists of ingredient(s) of unknown toxicity

## 2.3. Other Information

No information available.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Mixture

### 3.2 Mixtures

| Chemical name                                                               | CAS No.    | Weight-% |
|-----------------------------------------------------------------------------|------------|----------|
| Kaolin                                                                      | 1332-58-7  | 10 - 30  |
| Feldspar                                                                    | 68476-25-5 | 10 - 30  |
| Quartz                                                                      | 14808-60-7 | 1 - 5    |
| Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene | 68610-51-5 | 0.1 - 1  |

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|                     |                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area. If eye irritation persists: Get medical advice/attention. |
| <b>Skin contact</b> | Wash off immediately with plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a physician.                                     |
| <b>Inhalation</b>   | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                                                             |
| <b>Ingestion</b>    | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.                                 |

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

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**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

#### **4.4. Reference to Other Sections**

**Reference to other sections** Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 11: TOXICOLOGY INFORMATION

### **Section 5: FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

None known.

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

##### **Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

##### **Hazardous Combustion Products**

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

##### **Explosion Data**

##### **Sensitivity to mechanical impact**

None.

##### **Sensitivity to static discharge**

None.

#### **5.3. Advice for firefighters**

##### **Special protective actions for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **Section 6: ACCIDENTAL RELEASE MEASURES**

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

##### **Personal precautions**

Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing.

#### **6.2. Environmental precautions**

##### **Environmental precautions**

Keep people away from and upwind of spill/leak. See Section 12 for additional Ecological Information.

#### **6.3. Methods and material for containment and cleaning up**

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**Methods for containment** Stop leak if you can do it without risk.

**Methods for cleaning up** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## 6.4. Reference to other sections

**Reference to other sections** Section 7: HANDLING AND STORAGE  
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 13: DISPOSAL CONSIDERATIONS

## **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Do not reuse container.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep from freezing. Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible materials** No information available.

### 7.3. Specific end use(s)

**Specific Use(s)**  
Adhesives.

**Other information** No information available.

### 7.4. References to Other Sections

**Reference to other sections** Section 13: DISPOSAL CONSIDERATIONS  
Section 10: STABILITY AND REACTIVITY

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

**Exposure Guidelines** This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

| Chemical name          | ACGIH TLV                                                                                                                    | NIOSH IDLH                                                                       | OSHA PEL                                                                             | Mexico                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------|
| Kaolin<br>1332-58-7    | TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction | TWA: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup> |
| Feldspar<br>68476-25-5 | 2 mg/m <sup>3</sup> (Respirable fraction)                                                                                    | -                                                                                | 15 mg/m <sup>3</sup> (Total Dust)<br>5 mg/m <sup>3</sup> (Respirable dust fraction)  | -                                                       |
| Quartz<br>14808-60-7   | TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter                                                                   | IDLH: 50 mg/m <sup>3</sup> respirable dust<br>TWA: 0.05 mg/m <sup>3</sup>        | TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> excludes construction work,      | TWA: 0.1 mg/m <sup>3</sup>                              |

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|  |  |                 |                                                                                                                                                                                                                                             |  |
|--|--|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | respirable dust | agricultural operations, and exposures that result from the processing of sorptive clays<br>: (250)/(%SiO <sub>2</sub> + 5) mppcf<br>TWA respirable fraction<br>: (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup><br>TWA respirable fraction |  |
|--|--|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

| Chemical name        | Argentina                   | Brazil | Chile                                                   | Venezuela                    |
|----------------------|-----------------------------|--------|---------------------------------------------------------|------------------------------|
| Kaolin<br>1332-58-7  | TWA: 2 mg/m <sup>3</sup>    | -      | TWA: 13 mg/m <sup>3</sup><br>TWA: 4.5 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup>     |
| Quartz<br>14808-60-7 | TWA: 0.05 mg/m <sup>3</sup> | -      | TWA: 0.08 mg/m <sup>3</sup>                             | TWA: 0.025 mg/m <sup>3</sup> |

## 8.2. Exposure controls

### Engineering controls

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Use explosion-proof ventilating equipment.

### Personal protective equipment [PPE]

#### Eye/face protection

Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

#### Skin and body protection

Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General hygiene considerations

Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                |                          |
|----------------|--------------------------|
| Physical State | Liquid                   |
| Appearance     | Paste                    |
| Color          | No information available |
| Odor           | No information available |
| Odor Threshold | No information available |

| Property                               | Values                   | Remarks • Method |
|----------------------------------------|--------------------------|------------------|
| pH                                     | No information available |                  |
| Melting point / freezing point         | No data available        |                  |
| Boiling point / boiling range          | 100 °C / 212 °F          |                  |
| Flash Point                            | > 100 °C / > 212 °F      |                  |
| Evaporation Rate                       | No information available |                  |
| Flammability (solid, gas)              | No information available |                  |
| Flammability Limit in Air              |                          |                  |
| Upper flammability or explosive limits | No information available |                  |
| Lower flammability or explosive limits | No information available |                  |
| Vapor Pressure                         | No information available |                  |
| Vapor Density                          | No information available |                  |
| Relative Density                       | No information available |                  |

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|                              |                          |
|------------------------------|--------------------------|
| Water Solubility             | Insoluble                |
| Solubility in Other Solvents |                          |
| Partition coefficient        | No information available |
| Autoignition Temperature     | No information available |
| Decomposition Temperature    | No information available |
| Kinematic Viscosity          | No information available |

|                   |                          |
|-------------------|--------------------------|
| Dynamic Viscosity | No information available |
|-------------------|--------------------------|

|                      |                          |
|----------------------|--------------------------|
| Explosive properties | No information available |
| Oxidizing properties | No information available |

## 9.2. Other information

|                                 |                          |
|---------------------------------|--------------------------|
| Softening Point                 | No information available |
| Molecular Weight                | No information available |
| Solvent content (%)             | No information available |
| Solid content (%)               | No information available |
| Density                         | 1.100 g/cm <sup>3</sup>  |
| VOC (volatile organic compound) | No information available |

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Keep from freezing.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

|                     |                    |
|---------------------|--------------------|
| Product Information | No data available  |
| Inhalation          | No data available. |
| Eye contact         | No data available. |
| Skin contact        | No data available. |
| Ingestion           | No data available. |

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## Component Information

| Chemical name                                                                                   | Oral LD50               | Dermal LD50             | Inhalation LC50        |
|-------------------------------------------------------------------------------------------------|-------------------------|-------------------------|------------------------|
| Kaolin<br>1332-58-7                                                                             | LD50 (rat) > 2000 mg/kg | > 5000 mg/kg ( Rat )    | 1.5 mg/l 4hr           |
| Quartz<br>14808-60-7                                                                            | >2000 mg/kg ( Rat )     | -                       | -                      |
| Phenol, 4-methyl-, reaction products<br>with dicyclopentadiene and<br>isobutylene<br>68610-51-5 | > 5000 mg/kg ( Rat )    | > 5010 mg/kg ( Rabbit ) | > 165 mg/L ( Rat ) 1 h |

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                   |                                                                                                                                                                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms                          | No information available.                                                                                                                                                                                                                                                       |
| Skin corrosion/irritation         | No information available.                                                                                                                                                                                                                                                       |
| Serious eye damage/eye irritation | No information available.                                                                                                                                                                                                                                                       |
| Irritation                        | No information available.                                                                                                                                                                                                                                                       |
| Corrosivity                       | No information available.                                                                                                                                                                                                                                                       |
| Sensitization                     | No information available.                                                                                                                                                                                                                                                       |
| Germ cell mutagenicity            | No information available.                                                                                                                                                                                                                                                       |
| Reproductive toxicity             | Product is or contains a chemical which is a known or suspected reproductive hazard.                                                                                                                                                                                            |
| Developmental Toxicity            | No information available.                                                                                                                                                                                                                                                       |
| Teratogenicity                    | No information available.                                                                                                                                                                                                                                                       |
| STOT - single exposure            | No information available.                                                                                                                                                                                                                                                       |
| STOT - repeated exposure          | No information available.                                                                                                                                                                                                                                                       |
| Chronic Toxicity                  | No information available.                                                                                                                                                                                                                                                       |
| Target Organ Effects              | No information available.                                                                                                                                                                                                                                                       |
| Aspiration hazard                 | No information available.                                                                                                                                                                                                                                                       |
| Carcinogenicity                   | The table below indicates whether each agency has listed any ingredient as a carcinogen.<br>As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. |

| Chemical name        | ACGIH | IARC    | NTP   | OSHA |
|----------------------|-------|---------|-------|------|
| Quartz<br>14808-60-7 | A2    | Group 1 | Known | X    |

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

| Chemical name               | Algae/aquatic plants    | Fish                    | Toxicity to Microorganisms | Crustacea                                  |
|-----------------------------|-------------------------|-------------------------|----------------------------|--------------------------------------------|
| Kaolin<br>1332-58-7         | IC 50 (72h) > 1000 mg/l | LC 50 (96h) > 1000 mg/l |                            | EC 50 (48h) > 1000 mg/l<br>(Daphnia magna) |
| Phenol, 4-methyl-, reaction | EC50: >0.2mg/L (72h,    | LC50: >0.2mg/L (96h,    |                            | EC50: >0.2mg/L (48h,                       |

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|                                                            |                                  |                      |  |                |
|------------------------------------------------------------|----------------------------------|----------------------|--|----------------|
| products with dicyclopentadiene and isobutylene 68610-51-5 | Pseudokirchneriella subcapitata) | Oncorhynchus mykiss) |  | Daphnia magna) |
|------------------------------------------------------------|----------------------------------|----------------------|--|----------------|

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

## 12.4. Mobility in soil

No information available.

## Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Disposal of Wastes

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

#### Contaminated packaging

Dispose of in accordance with federal, state and local regulations

## Section 14: TRANSPORT INFORMATION

**Note:** Keep from freezing

DOT Not regulated

IATA Not regulated

IMDG Not regulated

## Section 15: REGULATORY INFORMATION

### Global Inventories

|      |        |
|------|--------|
| TSCA | Listed |
| DSL  | Listed |

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**Listed** - The components of this product are either listed or exempt from listing on inventory.

**Not Listed** - One or more components of this product are not listed on inventory.

### United States of America

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## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No.    |
|---------------|------------|
| Feldspar      | 68476-25-5 |

## **SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | No  |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

## **Europe**

### **Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU**

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

### **SVHC: Substances of Very High Concern for Authorization:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **Section 16: OTHER INFORMATION**

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

No information available

### **Key Literature References and Sources for Data**

No information available

|                            |                          |
|----------------------------|--------------------------|
| <b>Revision Date</b>       | 03-May-2019              |
| <b>Revision note</b>       | Not applicable.          |
| <b>Training Advice</b>     | No information available |
| <b>Further information</b> | No information available |

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**