



*Glue Down Vinyl Flooring*

## TIER OPTIMA MATERIAL SAFETY DATA SHEET

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## SAFETY DATA SHEET (SDS)

Tier Optima Board

Flooring material for indoor applications

Prepared using the OSHA HazCom 2012 SDS format

### SECTION 1: Identification

|                           |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Product name</b>       | TIER Optima                                                                                             |
| <b>Recommended Use:</b>   | Flooring material for indoor applications                                                               |
| <b>Manufacturer:</b>      | Anhui Sentai WPC Tec FlooringCo., Ltd.                                                                  |
| <b>Address:</b>           | Jianshe Road, Economic and Technology Development Area of Guangde County, 242237, Anhui Province, China |
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## Document layout

### Document Status and Basis of Preparation

This Safety Data Sheet (SDS) has been prepared internally by Eva-Last® as a provisional, self-declared SDS for Tier Optima Board. It has been compiled using information provided by the product manufacturer, Anhui Sentai WPC Tec Flooring Co., Ltd., together with publicly available chemical safety information for the listed ingredients.

This SDS is intended to provide safety, handling, storage, transport, disposal and emergency-response information for the product as supplied and during reasonably foreseeable use, including cutting, machining, installation and disposal. The product is supplied as a finished solid flooring board; however, dust generated during cutting, sanding or other mechanical processing may present additional exposure risks and should be controlled using appropriate ventilation and personal protective equipment.

The product has not been independently tested by Eva-Last® as a complete mixture for all hazard endpoints. Hazard classification and precautionary information have therefore been derived from supplier-provided composition data, ingredient-level hazard information and standard SDS preparation references.

This document should be treated as provisional pending receipt of an official manufacturer-issued SDS. It must be reviewed and updated if additional formulation, testing, regulatory or hazard information becomes available.

## SECTION 2: Hazard(s) Identification

### Product Form and Exposure Considerations

Tier Dryback Board is supplied as a finished, solid flooring board. Under normal handling and installation of the intact product, significant exposure to individual ingredients is not expected.

The primary potential exposure route is dust generated during cutting, sawing, sanding, grinding, drilling or other mechanical processing. Such dust may contain particles of the product matrix and bound ingredients, including carbon black. Avoid breathing dust and use appropriate dust extraction, ventilation and respiratory protection where mechanical processing is carried out.

- **Classification:**
  - Carcinogenicity (Category 1B)
  - Respiratory sensitization (Category 1)



- Skin sensitization (Category 1)
- **Signal Word:** Danger
- **Hazard Statements:**
  - May cause cancer
  - May cause respiratory irritation or asthma symptoms
  - May cause an allergic skin reaction
- **Precautionary Statements:**
  - Avoid breathing dust
  - Wear protective gloves and respiratory protection
  - Use only in well-ventilated areas
  - Wash hands thoroughly after handling

The product is supplied as a finished solid article/board. Hazard classifications have been assessed using available ingredient-level information and are most relevant where dust is generated during cutting, sanding, drilling or other mechanical processing. Under normal handling of the intact product, exposure to hazardous ingredients is expected to be limited.

### SECTION 3: Composition/Information on Ingredients

| Substance             | CAS No.    | % Weight |
|-----------------------|------------|----------|
| Polyurethane additive | 51852-81-4 | 0.5-0.8  |
| Polyvinyl chloride    | 9002-86-2  | 35-45    |
| Dioctyl terephthalate | 6422-86-2  | 10-15    |
| Calcium carbonate     | 471-34-1   | 35-40    |
| Calcium stearate      | 1592-23-0  | 0.5-0.8  |
| Zinc stearate         | 557-05-1   | 0.5-0.8  |
| Polyethylene wax      | 9002-88-4  | 0.5-0.8  |
| Carbon black          | 1333-86-4  | 0.01-0.1 |

#### Ingredient Form Note

Carbon black is present as a minor constituent within the solid polymer/mineral matrix of the finished board. It is not supplied as free carbon black powder and is not expected to be released under normal handling of the intact product. Exposure may occur only if dust is generated during cutting, sanding, grinding or other mechanical processing of the product.

### SECTION 4: First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Get medical advice if irritation develops.
- **Eye Contact:** Flush with water for at least 15 minutes. Seek medical advice if symptoms persist.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention.

### SECTION 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO<sub>2</sub>
- **Special Hazards:** Thermal decomposition may release HCl, CO, CO<sub>2</sub>
- **Protective Equipment:** Self-contained breathing apparatus and full protective clothing

### SECTION 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use PPE.
- **Cleanup:** Sweep or vacuum. Avoid water runoff.
- **Environmental Precautions:** Prevent entry into waterways.

## SECTION 7: Handling and Storage

- **Handling:** Use with adequate ventilation. Avoid creating dust.
- **Storage:** Store in a cool, dry, well-ventilated place away from strong oxidizers.
- **Adhesives and Ancillary Products**
  - Where adhesives, primers, levelling compounds, moisture barriers, cleaners, sealants or other ancillary products are used during installation, the safety data sheets and technical instructions for those products must also be reviewed and followed.
  - Tier Optima Dryback Board is supplied as a finished solid flooring board and is not expected to chemically react with compatible flooring adhesives under normal installation conditions. However, adhesive selection, substrate preparation, curing conditions, ventilation requirements and installer exposure risks are outside the scope of this SDS and must be assessed as part of the complete flooring installation system.

## SECTION 8: Exposure Controls / Personal Protection

| Chemical Name (CAS)            | OSHA PEL                          | ACGIH TLV                            |
|--------------------------------|-----------------------------------|--------------------------------------|
| Polyvinyl chloride (9002-86-2) | 15 mg/m <sup>3</sup> (total dust) | 1 mg/m <sup>3</sup> (resp. fraction) |
| Calcium carbonate (471-34-1)   | 15 mg/m <sup>3</sup> (total dust) | 10 mg/m <sup>3</sup> (inhalable)     |
| Carbon black (1333-86-4)       | 3.5 mg/m <sup>3</sup>             | 3.5 mg/m <sup>3</sup>                |

## SECTION 9: Physical and Chemical Properties

| Property      | Value                        |
|---------------|------------------------------|
| Appearance    | Solid boards, various colors |
| Odor          | Mild                         |
| pH            | Not applicable               |
| Melting Point | Not applicable               |
| Flash Point   | Not flammable                |
| Solubility    | Insoluble                    |

## SECTION 10: Stability and Reactivity

- **Reactivity:** Stable under normal conditions.
- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong acids, oxidizers
- **Hazardous Decomposition Products:** HCl, CO, CO<sub>2</sub>

## SECTION 11: Toxicological Information

- **Acute Toxicity:** Not expected under normal use
- **Skin Sensitization/Irritation:** Possible with prolonged contact
- **Carcinogenicity:** Carbon black (IARC Group 2B)
  - Carbon black is present in the finished product in a bound form within the solid board matrix. The carcinogenic classification associated with carbon black is primarily relevant to inhalation exposure to airborne, respirable carbon black particles. Under normal use of the intact board, exposure to free carbon black is not expected.
- **Dust generated during mechanical processing** may contain product particles and should be controlled using local extraction, good ventilation and suitable respiratory protection.
- **Mutagenicity/Teratogenicity:** Data not available.
- **Polymerization:** Will not occur under normal conditions.

## SECTION 12: Ecological Information

- **Persistence and Degradability:** Not readily biodegradable
- **Bioaccumulation Potential:** Low
- **Mobility in Soil:** Low
- **Other Adverse Effects:** None known.

## SECTION 13: Disposal Considerations

- **Waste Treatment Methods:** Dispose of in accordance with local regulations
- **Avoid release into environment**

## SECTION 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not applicable

## SECTION 15: Regulatory Information

- **OSHA HazCom 2012:** Classified
- **TSCA:** All components listed or exempt
- **REACH:** Compliant
- **California Prop 65:** Contains substances known to CA to cause cancer



## SECTION 16: Other Information

This SDS has been internally prepared by Eva-Last® based on information provided by the product manufacturer and is believed to be accurate and complete to the best of our knowledge. It has been compiled using standard SDS templates and publicly available chemical safety information. This document is issued as a provisional safety data sheet pending the release of an official version.

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