



**Tru-Plank *Elite***  
*Luxury Vinyl Plank*

## Safety Data Sheet (SDS) Report

**Project Number: 150428007SHF-BP**

Applicant: MJS Floorcoverings  
35 Dividend Street, MANSFIELD QLD 4122

Issue Date: 2015-05-08

### Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : MJS Tru Plank 2.5mm

Physical State : Solid

Data Received : April 30, 2015

Data Reviewed : May 08, 2015

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### Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with OSHA HazCom Standard (2012) requirements, for details please refer to attached pages.

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### Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai

Anna Wang  
Regulatory Consultant

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# MJS Tru Plank 2.5mm

## MJS Floorcoverings

Project number: 150428007SHF-BP

Version No:1.0  
Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date:08/05/2015  
S.GHS.USA.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

|                               |                                 |
|-------------------------------|---------------------------------|
| Product name                  | MJS Tru Plank 2.5mm Vinyl Floor |
| Synonyms                      | Not Available                   |
| Other means of identification | Not Available                   |

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

|                          |                 |
|--------------------------|-----------------|
| Relevant identified uses | Floor covering. |
|--------------------------|-----------------|

#### Details of the manufacturer/importer

|                         |  |
|-------------------------|--|
| Registered company name | MJS Floorcoverings                     |
| Address                 | 35 Dividend Street, MANSFIELD QLD 4122 |
| Telephone               | 07 3347 7300                           |
| Fax                     | 07 3343 9792                           |
| Emergency telephone     |  |
| Email                   | customerservice@mjsfc.com.au           |
| Importer name           |  |
| Address                 |  |
| Telephone               |  |
| Email                   |  |

#### Emergency telephone number


|                                   |  |
|-----------------------------------|--|
| Association / Organisation        |  |
| Emergency telephone numbers       |  |
| Other emergency telephone numbers |  |

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

|                    |                            |
|--------------------|----------------------------|
| GHS Classification | Skin Sensitizer Category 1 |
|--------------------|----------------------------|

#### Label elements

|                    |   |
|--------------------|---|
| GHS label elements |  |
|--------------------|---|

|             |                |
|-------------|----------------|
| SIGNAL WORD | <b>WARNING</b> |
|-------------|----------------|

#### Hazard statement(s)

|      |                                     |
|------|-------------------------------------|
| H317 | May cause an allergic skin reaction |
|------|-------------------------------------|

Continued...

## MJS Tru Plank 2.5mm Vinyl Floor

### Supplementary statement(s)

Not Applicable

### Precautionary statement(s) Prevention

|             |  |
|-------------|--|
| <b>P280</b> | Wear protective gloves/protective clothing/eye protection/face protection. |
| <b>P261</b> | Avoid breathing dust/fume/gas/mist/vapours/spray.                          |
| <b>P272</b> | Contaminated work clothing should not be allowed out of the workplace.     |

### Precautionary statement(s) Response

|                  |  |
|------------------|--|
| <b>P363</b>      | Wash contaminated clothing before reuse.                         |
| <b>P302+P352</b> | IF ON SKIN: Wash with plenty of water and soap                   |
| <b>P333+P313</b> | If skin irritation or rash occurs: Get medical advice/attention. |

### Precautionary statement(s) Storage

### Precautionary statement(s) Disposal

|             |  |
|-------------|--|
| <b>P501</b> | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|-------------|--|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No    | %[weight] | Name                         |
|-----------|-----------|------------------------------|
| 471-34-1  | 68.41     | <u>Calcium carbonate</u>     |
| 9002-86-2 | 22.68     | <u>PVC</u>                   |
| 6422-86-2 | 7.57      | <u>dioctyl terephthalate</u> |
| 1592-23-0 | 0.59      | <u>calcium stearate</u>      |
| 9009-54-5 | 0.35      | <u>polyurethane</u>          |
| 8050-09-7 | 0.24      | <u>rosin-colophony</u>       |
| 1333-86-4 | 0.16      | <u>Carbon black</u>          |

## 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 or hair contact occurs:</p> <ul style="list-style-type: none"> <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>  |

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

Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

|  |  |
|--|--|
|  | <ul style="list-style-type: none"> <li>▶ There is no restriction on the type of extinguisher which may be used.</li> <li>▶ Use extinguishing media suitable for surrounding area.</li> </ul> |
|--|--|

### Special hazards arising from the substrate or mixture

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

### Advice for firefighters

|                      |  |
|----------------------|--|
| <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 breathing apparatus plus protective gloves in the event of a fire.</li> </ul> |
|----------------------|--|

Continued...

## MJS Tru Plank 2.5mm Vinyl Floor

|                              |   |
|------------------------------|---|
|                              | <ul style="list-style-type: none"> <li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>▶ Use fire fighting procedures suitable for surrounding area.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn.</li> </ul>  |

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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

|                     |   |
|---------------------|---|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid contact with skin and eyes.</li> <li>▶ Wear impervious gloves and safety glasses.</li> <li>▶ Use dry clean up procedures and avoid generating dust.</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> <li>▶ Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>▶ Prevent spillage from entering drains, sewers or water courses.</li> </ul> |

|  |   |
|--|---|
|  | Personal Protective Equipment advice is contained in Section 8 of the MSDS. |
|--|---|

### SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

|                          |   |
|--------------------------|---|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Limit all unnecessary personal contact.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Avoid contact with incompatible materials.</li> </ul>                         |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ Store in a cool, dry area protected from environmental extremes.</li> <li>▶ Store away from incompatible materials and foodstuff containers.</li> </ul> |

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

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Carton.</li> <li>▶ Lined metal can, lined metal pail/ can.</li> <li>▶ Plastic pail.</li> <li>▶ Polyliner drum.</li> <li>▶ Packing as recommended by manufacturer.</li> </ul>   |
| <b>Storage incompatibility</b> | <p>Avoid contamination of water, foodstuffs, feed or seed.</p> <p>Phthalates:</p> <ul style="list-style-type: none"> <li>▶ react with strong acids, strong oxidisers, permanganates and nitrates</li> <li>▶ attack some form of plastics</li> </ul> <p>None known</p> |

#### PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

### 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)           | Calcium carbonate     | Calcium salt of carbonic acid [Note: Occurs in nature as limestone, chalk, marble, dolomite, aragonite, calcite and oyster shells.] | 10 (total), 5 (resp) mg/m3               | Not Available | Not Available | Not Available  |
| US ACGIH Threshold Limit Values (TLV)                 | PVC                   | Polyvinyl chloride  | 1 mg/m3                                  | Not Available | Not Available | TLV® Basis: Pneumoconiosis; LRT irr; pulm func changes   |
| US OSHA Permissible Exposure Levels (PELs) - Table Z3 | dioctyl terephthalate | Inert or Nuisance Dust  | 5 mg/m3 / 15 mg/m3 / 15 mppcf / 50 mppcf | Not Available | Not Available | Respirable fraction; All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. / Total dust; All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. |
| US ACGIH Threshold Limit Values (TLV)                 | calcium stearate      | Stearates(J)  | 10 mg/m3                                 | Not Available | Not Available | TLV® Basis: Eye, skin, & URT irr   |
| US ACGIH Threshold Limit Values (TLV)                 | rosin-colophony       | * Rosin core solder thermal decomposition products (colophony)  | Not Available                            | Not Available | Not Available | TLV® Basis: Skin sens; dermatitis; asthma  |

Continued...

### MJS Tru Plank 2.5mm Vinyl Floor

|   |              |  |           |               |               |                                  |
|---|--------------|--|-----------|---------------|---------------|----------------------------------|
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | Carbon black | Carbon black   | 3.5 mg/m3 | Not Available | Not Available | Not Available                    |
| US ACGIH Threshold Limit Values (TLV)                 | Carbon black | Carbon black   | 3 mg/m3   | Not Available | Not Available | TLV® Basis: Bronchitis           |
| US NIOSH Recommended Exposure Limits (RELs)           | Carbon black | Acetylene black, Channel black, Furnace black, Lamp black, Thermal black | 3.5 mg/m3 | Not Available | Not Available | Ca See Appendix A See Appendix C |

#### EMERGENCY LIMITS

| Ingredient            | Material name   | TEEL-1      | TEEL-2     | TEEL-3     |
|-----------------------|---|-------------|------------|------------|
| Calcium carbonate     | Carbonic acid, calcium salt                               | 45 mg/m3    | 210 mg/m3  | 1300 mg/m3 |
| PVC                   | Polyvinyl chloride  | 3 mg/m3     | 33 mg/m3   | 200 mg/m3  |
| dioctyl terephthalate | Particulate material (PNOS)                               | 30 mg/m3    | 330 mg/m3  | 2000 mg/m3 |
| polyurethane          | Polyurethane foam; (Urethane polymers)                    | 0.031 mg/m3 | 0.34 mg/m3 | 2 mg/m3    |
| rosin-colophony       | Rosin core solder decomposition products; (Colophony Gum) | 0.3 mg/m3   | 4.9 mg/m3  | 4.9 mg/m3  |
| Carbon black          | Carbon black  | 9 mg/m3     | 99 mg/m3   | 590 mg/m3  |

| Ingredient            | Original IDLH         | Revised IDLH  |
|-----------------------|-----------------------|---------------|
| Calcium carbonate     | Not Available         | Not Available |
| PVC                   | Not Available         | Not Available |
| dioctyl terephthalate | Not Available         | Not Available |
| calcium stearate      | Not Available         | Not Available |
| polyurethane          | Not Available         | Not Available |
| rosin-colophony       | Not Available         | Not Available |
| Carbon black          | N.E. mg/m3 / N.E. ppm | 1,750 mg/m3   |

#### Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | <p>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.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment.</p> |
| <b>Personal protection</b>              |   |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</li> </ul>   |
| <b>Skin protection</b>                  | See Hand protection below  |
| <b>Hands/feet protection</b>            | <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> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Suitability and durability of glove type is dependent on usage.</p>   |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | <p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ Barrier cream.</li> <li>▶ Eyewash unit.</li> </ul>   |
| <b>Thermal hazards</b>                  | Not Available  |

#### Recommended material(s)

##### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

**'Forsberg Clothing Performance Index'.**

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

Vinyl Floor Not Available

|          |     |
|----------|-----|
| Material | CPI |
|----------|-----|

\* CPI - Chemwatch Performance Index

#### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent)

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | P1 Air-line*         | -                    | PAPR-P1                |
| up to 50 x ES                      | Air-line**           | P2                   | PAPR-P2                |
| up to 100 x ES                     | -                    | P3                   | -                      |

Continued...

## MJS Tru Plank 2.5mm Vinyl Floor

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as 'feel' or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

|           |   |            |         |
|-----------|---|------------|---------|
|           |   | Air-line*  | -       |
| 100+ x ES | - | Air-line** | PAPR-P3 |

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

|   |               |  |                |
|---|---------------|--|----------------|
| <b>Appearance</b>                                   | Black solid   |  |                |
| <b>Physical state</b>                               | Solid         | <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</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>                             | Not Available | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Flammable | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Available | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Applicable |
| <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 (g/L)</b>                    | Not Available | <b>pH as a solution (1%)</b>                   | Not Available  |
| <b>Vapour density (Air = 1)</b>                     | Not Available | <b>VOC g/L</b>                                 | Not Available  |

### SECTION 10 STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Reactivity</b>                         | See section 7   |
| <b>Chemical stability</b>                 | Product is considered stable and hazardous polymerisation will not occur. |
| <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>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.<br>The toxicity of phthalates is not excessive due to slow oral absorption and metabolism. Absorption is affected by fat in the diet.                                       |
| <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.  |
| <b>Eye</b>          | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.   |
| <b>Chronic</b>      | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.<br>There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. |

|                    |                 |                   |
|--------------------|-----------------|-------------------|
| <b>Vinyl Floor</b> | <b>TOXICITY</b> | <b>IRRITATION</b> |
|                    | Not Available   | Not Available     |

## MJS Tru Plank 2.5mm Vinyl Floor

|                       |   |                       |
|-----------------------|---|-----------------------|
| Calcium carbonate     | TOXICITY  | IRRITATION            |
|                       | Not Available   | Not Available         |
| PVC                   | TOXICITY  | IRRITATION            |
|                       | Not Available   | Not Available         |
| dioctyl terephthalate | TOXICITY  | IRRITATION            |
|                       | Dermal (guinea pig) LD50: >19.68 mg/kg <sup>[2]</sup>   | [Eastman]             |
|                       | Oral (mouse) LD50: >3200 mg/kg <sup>[2]</sup>   | Eye (rabbit): slight  |
|                       | Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>   | Skin (g. pig): slight |
| calcium stearate      | TOXICITY  | IRRITATION            |
|                       | Not Available   | Not Available         |
| polyurethane          | TOXICITY  | IRRITATION            |
|                       | Not Available   | Not Available         |
| rosin-colophony       | TOXICITY  | IRRITATION            |
|                       | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>   | Not Available         |
|                       | Oral (rat) LD50: 3.0 mg/kg <sup>[2]</sup>   |                       |
| Carbon black          | TOXICITY  | IRRITATION            |
|                       | Not Available   | Not Available         |
| <b>Legend:</b>        | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's msds. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                       |

|                       |   |
|-----------------------|---|
| dioctyl terephthalate | <p>The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited organelles in the cytoplasm that are found in the cells of animals, plants, fungi, and protozoa.</p> <p>Tests reveal that terephthalic acid has low levels of toxicity when swallowed, inhaled or on skin contact. Animal testing shows that it causes mild airway irritation, and causes inflammation and stones in the bladder, with tumours appearing on chronic exposure.</p>  |
| calcium stearate      | <p>Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.</p> |
| POLYURETHANE          | <p>The substance is classified by IARC as Group 3:<br/> <b>NOT</b> classifiable as to its carcinogenicity to humans.<br/>           Evidence of carcinogenicity may be inadequate or limited in animal testing.<br/>           Data for polyurethane foam. Inhalation (human)TCLo: 12 mg/m<sup>3</sup>/11W-C No data available [RTECS]</p>  |
| ROSIN-COLOPHONY       | <p>The following information refers to contact allergens as a group and may not be specific to this product.<br/>           Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.</p>  |

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

Legend: ✓ – Data required to make classification available  
 ✗ – Data available but does not fill the criteria for classification  
 ⊖ – Data Not Available to make classification

## MJS Tru Plank 2.5mm Vinyl Floor

|                    |                       |   |   |     |
|--------------------|-----------------------|---|---|-----|
| <b>CARCINOGEN</b>  | Carbon black          | US Environmental Defense Scorecard Recognized Carcinogens   | US NIOSH Recommended Exposure Limits (RELs) - | P65 |
| <b>RESPIRATORY</b> | dioctyl terephthalate | US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs) - Respiratory | X   |     |

### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity

#### Persistence and degradability

| Ingredient            | Persistence: Water/Soil | Persistence: Air |
|-----------------------|-------------------------|------------------|
| PVC                   | LOW                     | LOW              |
| dioctyl terephthalate | LOW                     | LOW              |
| rosin-colophony       | HIGH                    | HIGH             |

#### Bioaccumulative potential

| Ingredient            | Bioaccumulation        |
|-----------------------|------------------------|
| PVC                   | LOW (LogKOW = 1.6233)  |
| dioctyl terephthalate | LOW (LogKOW = 8.3918)  |
| rosin-colophony       | HIGH (LogKOW = 6.4607) |

#### Mobility in soil

| Ingredient            | Mobility           |
|-----------------------|--------------------|
| PVC                   | LOW (KOC = 23.74)  |
| dioctyl terephthalate | LOW (KOC = 162100) |
| rosin-colophony       | LOW (KOC = 21990)  |

### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|                                     |  |
|-------------------------------------|--|
| <b>Product / Packaging disposal</b> | <ul style="list-style-type: none"> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Management Authority for disposal.</li> <li>▶ Bury residue in an authorised landfill.</li> <li>▶ Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|-------------------------------------|--|

### SECTION 14 TRANSPORT INFORMATION

#### Labels Required

|                         |    |
|-------------------------|----|
| <b>Marine Pollutant</b> | 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**

#### Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

| Source  | Ingredient      | Pollution Category |
|---|-----------------|--------------------|
| IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk | rosin-colophony | Y                  |

### SECTION 15 REGULATORY INFORMATION

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

|  |   |
|--|---|
| <b>Calcium carbonate(471-34-1) is found on the following regulatory lists</b>      | 'US - California Permissible Exposure Limits for Chemical Contaminants', 'US NIOSH Recommended Exposure Limits (RELs)', 'US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory'   |
| <b>PVC(9002-86-2) is found on the following regulatory lists</b>                   | 'US - Hawaii Air Contaminant Limits', 'US ACGIH Threshold Limit Values (TLV) - Carcinogens', 'International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs', 'US ACGIH Threshold Limit Values (TLV)', 'US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory'  |
| <b>dioctyl terephthalate(6422-86-2) is found on the following regulatory lists</b> | 'US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants', 'US - Hawaii Air Contaminant Limits', 'US - California Permissible Exposure Limits for Chemical Contaminants', 'US - Oregon Permissible Exposure Limits (Z-1)', 'International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs', 'US OSHA Permissible Exposure Levels (PELs) - Table Z3', 'US - Michigan Exposure Limits for Air Contaminants', 'US - Washington Permissible exposure limits of air contaminants', 'US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)', 'US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants', 'US Toxic Substances Control Act (TSCA) - Chemical |

Continued...



### MJS Tru Plank 2.5mm Vinyl Floor

|   |  |
|---|--|
|   | Substance Inventory'   |
| <b>calcium stearate(1592-23-0) is found on the following regulatory lists</b> | 'US - California Permissible Exposure Limits for Chemical Contaminants','US ACGIH Threshold Limit Values (TLV) - Carcinogens','US ACGIH Threshold Limit Values (TLV) ','US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory'   |
| <b>polyurethane(9009-54-5) is found on the following regulatory lists</b>     | 'US Toxic Substances Control Act (TSCA) - Premanufacture Notice (PMN) Chemicals','International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs'   |
| <b>rosin-colophony(8050-09-7) is found on the following regulatory lists</b>  | 'US - Michigan Exposure Limits for Air Contaminants','US - Washington Permissible exposure limits of air contaminants','US ACGIH Threshold Limit Values (TLV) ','US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory'  |
| <b>Carbon black(1333-86-4) is found on the following regulatory lists</b>     | 'US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants','US - Hawaii Air Contaminant Limits','US - California Permissible Exposure Limits for Chemical Contaminants','US - Idaho - Limits for Air Contaminants','US ACGIH Threshold Limit Values (TLV) - Carcinogens','US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants','US - Oregon Permissible Exposure Limits (Z-1)','International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs','US - Michigan Exposure Limits for Air Contaminants','US - Alaska Limits for Air Contaminants','US NIOSH Recommended Exposure Limits (RELs)','US - Washington Permissible exposure limits of air contaminants','US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity','US - Minnesota Permissible Exposure Limits (PELs)','US - California Proposition 65 - Carcinogens','US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants','US ACGIH Threshold Limit Values (TLV) ','US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants','US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory','US OSHA Permissible Exposure Levels (PELs) - Table Z1','US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens' |

| National Inventory            | Status   |
|-------------------------------|--|
| Australia - AICS              | N (polyurethane)   |
| Canada - DSL                  | N (polyurethane)   |
| China - IECSC                 | Y  |
| Europe - EINEC / ELINCS / NLP | N (polyurethane; PVC)  |
| Japan - ENCS                  | N (polyurethane)   |
| Korea - KECI                  | N (polyurethane)   |
| New Zealand - NZIoC           | Y  |
| Philippines - PICCS           | N (polyurethane)   |
| USA - TSCA                    | N (polyurethane)   |
| <b>Legend:</b>                | <i>Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i> |

## SECTION 16 OTHER INFORMATION

### Other information

The (M)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. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.