



## Safety Data Sheet (SDS)

Version No.: 1.0

Preparation Date: July 19, 2019  
Revision Date: N/A

### SECTION 1: Identification of the mixture and of the company

#### Product Identifier

Product Name: **Intentek™ Laminate**  
Formula: Mixture

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

Product Use: Decorative Surfacing - High Pressure Laminate - for Table tops or Countertops  
Uses Advised  
Against: None Known

#### Details of the supplier of the SDS

Name: Formica Corporation  
Address: 10155 Reading Road  
Cincinnati, OH 45241 (USA)  
Phone: (800) 367-6422 (USA)

#### Emergency telephone numbers

Call CHEMTREC at 1-800-424-9300 (U.S.) or +1-703-527-3887 (International).

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### SECTION 2: Hazards identification

#### Classification of the mixture in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200

**GHS Classification:** The material as supplied is not classified as hazardous.

However, during fabrication or installation operations, the product may be sawed, sanded, drilled, routed, cut, or processed in other ways that could release dust consisting of cured resin, paper and fiber, and minute amounts of formaldehyde at the point of operation. Formaldehyde may be released in minute but detectable amounts when material is shipped or stored in bulk quantities.

#### Labelling according to GHS

**Hazard Pictogram(s):** None  
**Signal Word:** None  
**Hazard Statement(s):** None

**Precautionary Statement(s)**

**Prevention:** Not applicable.  
**Response:** Not applicable.  
**Storage:** Not applicable.  
**Disposal:** Not applicable.

**OSHA Regulatory Status**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Other hazards**

**Hazardous Properties:** During installation and fabrication, inhalation of dust may irritate the respiratory system. Avoid breathing dust. Dust may also irritate eyes and skin upon contact.

**SECTION 3: Composition / Information on Ingredients**

**Substances**

Not applicable

**Mixtures**

| Name   | CAS Number     | Weight % (w/w)* |
|--|----------------|-----------------|
| Polymerized Melamine Formaldehyde Resins and Phenolic Formaldehyde Resin | Not applicable | Not applicable  |
| Aluminum oxide   | 1344-28-1      | Not applicable  |
| Titanium dioxide   | 13463-67-7     | Not applicable  |
| Silver   | 7440-22-4      | Not applicable  |
| Cellulose  | 9004-34-6      | Not applicable  |

\* The product contains no substances which at their formulated concentrations are considered to be hazardous to human health.

**SECTION 4: First Aid Measures**

**Description of first aid measures**

**Eye contact:** If dust gets into the eyes, immediately rinse affected eye for at least 15 minutes with clean water. Remove contact lenses, if present, after 5 minutes, then continue rinsing. If irritation persists, seek medical attention.

**Skin contact:** If on skin: wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Wash contaminated clothing before reuse.

**Inhalation:** If excess dust is inhaled, move to fresh air. Seek medical attention if symptoms such as wheezing and/or shortness of breath occur.

Ingestion: If dust gets into mouth, rinse mouth with clean water. Get medical advice/attention if you feel unwell.

Note to physicians: Treat symptomatically.

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

None Known

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

None Known

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**SECTION 5: Firefighting Measures**

**Suitable Extinguishing media**

Use CO<sub>2</sub>, dry chemical, water, or foam.

**Unsuitable Extinguishing media**

None known

**Special hazards arising from the substance or mixture**

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition of combustion.

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

Combustion products may be irritating to eyes, skin and the respiratory tract. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective gear.

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**SECTION 6: Accidental Release Measures**

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

During installation and fabrication processes, ensure adequate ventilation and wear appropriate personal protective equipment. Wear safety glasses with side shields or chemical splash goggles. Impervious gloves are recommended when installing this product as well as clothing suitable to prevent skin contact. Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure.

**Methods and material for containment and cleaning up**

During installation and fabrication processes, avoid dust formation. Promptly sweep or vacuum up dust and scrap materials and collect in suitable containers for disposal.

**Reference to other sections**

Follow safe handling practices as prescribed in Section 7. Use protective equipment as prescribed in Section 8. Dispose of in accordance with Section 13.

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**SECTION 7: Handling and Storage**

**Precautions for safe handling**

Use appropriate personal protective equipment. Prevent dust from entering eyes. Do not breathe dust. Avoid prolonged skin contact with dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

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

Store in a well-ventilated, cool and dry place. Keep away from strong chemicals, solvents and excessive heat.

**SECTION 8: Exposure Controls/Personal Protection**

**Control Parameters**

**Permissible concentrations:**

| <i>Occupational exposure limits for hazardous agents in the workplace</i> |  |                             |  |   |
|---|--|-----------------------------|--|---|
| <b>Substance name</b>   | <b>CAS No.</b>                             | <b>OSHA PEL<sup>1</sup></b> | <b>NIOSH REL</b>   | <b>ACGIH TLV</b>                                |
| Particulates Not Otherwise Regulated (Total Dust)                         |  | 15 mg/m <sup>3</sup>        | Not established  | 10 mg/m <sup>3</sup> inhalable                  |
| Particulates Not Otherwise Regulated (Respirable Fraction)                |  | 5 mg/m <sup>3</sup>         | Not established  | 3 mg/m <sup>3</sup> respirable particles        |
| Titanium dioxide  | 13463-67-7<br>(Total dust)                 | 15 mg/m <sup>3</sup>        | 2.4 mg/m <sup>3</sup> (fine)<br>0.3 mg/m <sup>3</sup> (ultrafine)<br>Potential occupational carcinogens (Ultra fine particles) | 10 mg/m <sup>3</sup>                            |
| Aluminum oxide  | 1344-28-1<br>(Total dust)                  | 15 mg/m <sup>3</sup>        | Not established  | Not established                                 |
|   | (Respirable fraction)                      | 5 mg/m <sup>3</sup>         | Not established  | Not established                                 |
| Silver  | 7440-22-4<br>(Metal and soluble compounds) | 0.01 mg/m <sup>3</sup>      | 0.01 mg/m <sup>3</sup>   | 0.01 mg/m <sup>3</sup> Soluble compounds, as Ag |
|   | (Metal, dust, and fume)                    | Not established             | Not established  | 0.1 mg/m <sup>3</sup>                           |
| Cellulose   | 9004-34-6<br>(Total dust)                  | 15 mg/m <sup>3</sup>        | 10 mg/m <sup>3</sup>   | 10 mg/m <sup>3</sup>                            |
|   | (Respirable fraction)                      | 5 mg/m <sup>3</sup>         | 5 mg/m <sup>3</sup>  | Not established                                 |

<sup>1</sup> Per Table Z-1: Limits for air contaminants, codified at 29 CFR 1910.1000  
STEL: Short Term Exposure Limit

**Exposure controls**

|                                 |   |
|---------------------------------|---|
| Engineering controls:           | Provide adequate ventilation to maintain exposure levels below applicable limits. The use of local exhaust ventilation is recommended during fabrication work.  |
| Eye / Face protection:          | Wear safety glasses with side shields or goggles when sawing, sanding, drilling or routing the product.   |
| Skin protection:                | Wear appropriate gloves and protective clothing when installing, transporting, sawing, cutting, drilling, routing or handling uninstalled pieces.   |
| Respiratory protection:         | Where airborne concentrations of dust are expected to exceed the allowable exposures, a NIOSH-approved respirator should be worn, chosen based on the form and concentration of the contaminant. Respirator usage must be in accordance with the OSHA Respiratory Protection Standard, 29 CFR 1910.134. |
| General hygiene considerations: | Wash hands thoroughly after sawing, cutting, drilling or routing the product. Have eyewash facilities immediately available.  |

**SECTION 9: Physical and Chemical Properties**

**Information on basic physical and chemical properties**

| <b>Property</b>                         | <b>Value</b>                                 | <b>Property</b>   | <b>Value</b>   |
|---|--|---|----------------|
| Physical State:                         | Solid  | Viscosity:  | Not applicable |
| Appearance:                             | Solid sheet product; various colors & prints | Density (25 °C):  | Not applicable |
| Odor:                                   | No significant odor                          | Boiling Point:  | Not applicable |
| Odor Threshold:                         | Not applicable                               | Boiling Range:  | Not applicable |
| pH (25 °C):                             | Not applicable                               | Freezing/melting point:                                   | Not applicable |
| Flash Point (°F):                       | Not applicable                               | Specific gravity (g/cc):                                  | 1.44           |
| Vapor Pressure (mm Hg):                 | Not applicable                               | Evaporation Rate:   | Not applicable |
| Vapor Density:                          | Not applicable                               | Upper Explosive Limit (UEL):                              | Not applicable |
| Solubility in Water:                    | Not applicable                               | Lower Explosive Limit (LEL):                              | Not applicable |
| Autoignition Temperature:               | Not applicable                               | Decomposition Temperature (°F):                           | Not applicable |
| Partition Coefficient: n-octanol/water: | Not applicable                               | Flammability Classification (as per in 29 CFR 1910.1200): | Not applicable |
| Explosive Properties:                   | Not applicable                               | Oxidizing Properties:                                     | Not applicable |

**Other information**

None known

**SECTION 10: Stability and Reactivity**

**Reactivity**

Not reactive.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None when handled as intended.

**Conditions to avoid**

Excessive heat, open flames.

**Incompatible materials**

Avoid contact with oxidizing agents.

**Hazardous decomposition products**

Thermal decomposition product may include various oxides of carbon and nitrogen may be released.

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**SECTION 11: Toxicological Information**

**Likely route of exposure:**

Dermal, inhalation

**Symptoms:**

**Information on toxicological effects**

Acute toxicity:

| <u>Constituent name</u> | <u>Result</u> | <u>Species</u> | <u>Dose</u> |
|-------------------------|---------------|----------------|-------------|
| Silver                  | LD50 Oral     | Rat            | >5000 mg/kg |
|                         | LD50          | Rat            | >2000 mg/kg |
|                         | Dermal        |                |             |

Skin irritation/corrosion: No data were identified for this product or its constituents.

Eye irritation/corrosion: No data were identified for this product or its constituents.

Respiratory or skin sensitization: No data were identified for this product or its constituents.

Germ cell mutagenicity: No data were identified for this product or its constituents.

Carcinogenicity:

This product may contain trace amounts of formaldehyde and melamine. Titanium dioxide, an ingredient in the product, is suspected of causing cancer. However, the only evidence of carcinogenicity is in rats exposed to very high concentrations. Two major epidemiology studies among titanium dioxide workers in the U.S. and Europe could not demonstrate an elevated lung cancer risk.

Boffetta, et al. 2004. Mortality among workers employed in the titanium dioxide production industry in Europe. *Cancer Causes Control* 15(7): 697-706.

Fryzek et al. 2003. A cohort mortality study among titanium dioxide manufacturing workers in the United States. *J Occup Environ Med* 45(4): 400-409.

| <u>Constituent name</u> | <u>IARC</u> | <u>NTP</u> | <u>OSHA</u> |
|-------------------------|-------------|------------|-------------|
| Melamine                | Yes*        | No         | No          |
| Titanium dioxide        | Yes*        | No         | No          |
| Formaldehyde            | Yes**       | Yes        | Yes         |

\*Melamine and Titanium dioxide are listed as an IARC Group 2B carcinogen (possibly carcinogenic to humans).

\*\* Formaldehyde is listed as an IARC Group 1 carcinogen (carcinogenic to humans).

Reproductive and developmental toxicity:

No data were identified for this product or its constituents.

Specific target organ toxicity – Single exposure (STOT-SE):

No data were identified for this product or its constituents.

Specific target organ toxicity – Repeated exposure (STOT-RE):

No data were identified for this product or its constituents.

Aspiration hazard:

No data were identified for this product or its constituents.

Neurological effects:

No data were identified for this product or its constituents.

Interactions with other chemicals which enhance toxicity:

No data were identified for this product or its constituents.

**SECTION 12: Ecological Information**

**Toxicity**

| <u>Constituent name</u> | <u>Result</u>         | <u>Species</u>   | <u>Exposure</u> |
|-------------------------|-----------------------|------------------|-----------------|
| Aluminum oxide          | Acute NOEC: >100 mg/L | S. trutta        | 96 hours        |
|                         | Acute NOEC: >100 mg/L | D. magna         | 48 hours        |
|                         | Acute NOEC: >100 mg/L | S. capricornutum | 72 hours        |

**Persistence and degradability**

No data for product.

**Bioaccumulative potential**

No data for product.

**Mobility in soil**

No data for product.

**Other adverse effects**

No data for product.

**SECTION 13: Disposal Considerations**

**Waste treatment methods**

Responsibility for proper waste disposal is with the owner of the waste.

Dispose of contents to landfill in accordance with local, state, and federal regulations.

**SECTION 14: Transport Information**

|   |                                 |
|---|---------------------------------|
| <b>UN number:</b>   | Not Regulated                   |
| <b>UN proper shipping name:</b>   | Not Regulated                   |
| <b>Transport hazard class(es):</b>  | Not Regulated                   |
| <b>Packing group:</b>   | Not Regulated                   |
| <b>Marine Pollutant:</b>  | Not Regulated                   |
| <b>Special precautions for user:</b>  | See Sections 6 to 8 of this SDS |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC:</b> | Not Regulated                   |
| <b>IATA</b>   | Not Regulated                   |
| <b>IMDG</b>   | Not Regulated                   |
| <b>ADR</b>  | Not Regulated                   |
| <b>RID</b>  | Not Regulated                   |



**SECTION 15: Regulatory Information**

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

**TSCA Status:** Not Regulated

**SARA (Section 311/312):**

Reactive hazard: No  
 Pressure hazard: No  
 Fire hazard: No  
 Immediate/acute toxicity: No  
 Delayed/chronic toxicity: No

**SARA Section 313 Information:**

|                |           |
|----------------|-----------|
| Aluminum oxide | 1344-28-1 |
| Silver         | 7440-22-4 |

**Clean Air Act (CAA):**

**Clean Water Act (CWA):**

|        |           |
|--------|-----------|
| Silver | 7440-22-4 |
|--------|-----------|

**Volatile Organic Compounds (VOCs):**

VOC Content (weight%): VOC release is extremely low.  
 Remarks: Product as supplied is fully cured and chemically inert.

**State Right-to-Know Status:**

California Prop. 65: WARNING: This product can expose you to chemicals including titanium dioxide and formaldehyde which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

|                  |         |
|------------------|---------|
| Titanium dioxide | <0.6%   |
| Formaldehyde     | <0.001% |

Massachusetts:

|                  |            |
|------------------|------------|
| Titanium dioxide | 13463-67-7 |
| Aluminum oxide   | 1344-28-1  |
| Cellulose        | 9004-34-6  |

New Jersey:

|                  |            |
|------------------|------------|
| Titanium dioxide | 13463-67-7 |
| Aluminum oxide   | 1344-28-1  |
| Cellulose        | 9004-34-6  |

Pennsylvania:

|                  |            |
|------------------|------------|
| Titanium dioxide | 13463-67-7 |
| Aluminum oxide   | 1344-28-1  |
| Silver           | 7440-22-4  |
| Cellulose        | 9004-34-6  |

**Dispose of all waste product and containers in accordance with local regulations.**

**SECTION 16: Other Information**

|                            |                    |  |
|----------------------------|--------------------|--|
| <b>16.1 Abbreviations:</b> | ACGIH              | American Council of Governmental Industrial Hygienists     |
|                            | ADR:               | International Carriage of Dangerous Goods by Road          |
|                            | CAA:               | Clean Air Act  |
|                            | CAS:               | Chemical Abstracts Service Registry Number                 |
|                            | CWA:               | Clean Water Act  |
|                            | EPCRA:             | Emergency Planning and Community Right-to-Know Act of 1986 |
|                            | g/cc:              | Grams per cubic centimeter                                 |
|                            | GHS:               | Globally Harmonized System of Classification and Labeling  |
|                            | IARC:              | International Agency for Research on Cancer                |
|                            | IATA:              | International Air Transport Association                    |
|                            | IBC:               | Intermediate Bulk Container                                |
|                            | IHL:               | Inhalable  |
|                            | IMDG:              | International Maritime Dangerous Goods                     |
|                            | LC <sub>50</sub> : | Median lethal concentration                                |
|                            | LD <sub>50</sub> : | Median lethal dose   |
|                            | LEL:               | Lower explosive limit                                      |
|                            | mg/kg:             | Milligrams per kilogram                                    |
|                            | mm Hg:             | Millimeters of mercury                                     |
|                            | N/A:               | Not applicable   |
|                            | NIOSH:             | National Institute for Occupational Safety and Health      |
|                            | NTP:               | National Toxicology Program                                |
|                            | OSHA:              | Occupational Safety and Health Administration              |
|                            | PBT:               | Persistent, bioaccumulative, and toxic                     |
|                            | PEL:               | Permissible exposure limit                                 |
|                            | REL:               | Recommended exposure limit                                 |
|                            | RID:               | International Carriage of Dangerous Goods by Rail          |
|                            | SARA:              | Superfund Amendments and Reauthorization Act               |
|                            | SDS:               | Safety data sheet  |
|                            | STEL:              | Short term exposure limit                                  |
|                            | TLV:               | Threshold limit value                                      |
|                            | TSCA:              | Toxic Substances Control Act                               |
|                            | UEL:               | Upper explosive limit                                      |
|                            | UN:                | United Nations   |
|                            | USA:               | United States of America                                   |
|                            | VOC:               | Volatile organic compound                                  |

Revisions: SDS prepared on July 19, 2019

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**End of Safety Data Sheet**