



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).

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

SECTION 5: Firefighting Measures

Suitable Extinguishing media

Use CO₂, 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.

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.

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>				
Substance name	CAS No.	OSHA PEL¹	NIOSH REL	ACGIH TLV
Particulates Not Otherwise Regulated (Total Dust)		15 mg/m ³	Not established	10 mg/m ³ inhalable
Particulates Not Otherwise Regulated (Respirable Fraction)		5 mg/m ³	Not established	3 mg/m ³ respirable particles
Titanium dioxide	13463-67-7 (Total dust)	15 mg/m ³	2.4 mg/m ³ (fine) 0.3 mg/m ³ (ultrafine) Potential occupational carcinogens (Ultra fine particles)	10 mg/m ³
Aluminum oxide	1344-28-1 (Total dust)	15 mg/m ³	Not established	Not established
	(Respirable fraction)	5 mg/m ³	Not established	Not established
Silver	7440-22-4 (Metal and soluble compounds)	0.01 mg/m ³	0.01 mg/m ³	0.01 mg/m ³ Soluble compounds, as Ag
	(Metal, dust, and fume)	Not established	Not established	0.1 mg/m ³
Cellulose	9004-34-6 (Total dust)	15 mg/m ³	10 mg/m ³	10 mg/m ³
	(Respirable fraction)	5 mg/m ³	5 mg/m ³	Not established

¹ 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

Property	Value	Property	Value
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.

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

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

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

16.1 Abbreviations:	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 ₅₀ :	Median lethal concentration
	LD ₅₀ :	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

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End of Safety Data Sheet