



## Safety Data Sheet (SDS)

Version No.: 2.0

Preparation Date: May 19, 2018

Revision Date: October 4, 2018

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

#### Product Identifier

Product Name: **HardStop™**  
Formula: Mixture

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

Product Use: High-Pressure Decorative Panels  
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 substance or mixture

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

However, during fabrication operations such as sawing, sanding, drilling, routing, cutting, etc. dust consisting of cured resin, fiberglass, aluminum hydroxide and minute amounts of formaldehyde are generated 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)
Alumina Trihydrate	Not applicable	Not applicable
Polymerized Melamine Formaldehyde Resins and Phenolic Formaldehyde Resin	Not applicable	Not applicable
Fiberglass Matte	Not applicable	Not applicable
Carbon Black	1333-86-4	Not applicable
p -Toluenesulfonic acid	104-15-4	Not applicable
Morpholine	110-91-8	Not applicable

The product contains no substances which at their formulated concentrations are considered to be hazardous to human health. The Carbon Black used in this product is a refined form that is not classified for any human health hazards.

**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 dust gets 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 possible toxic gases may be generated by thermal decomposition of combustion. Dust generated during installation/fabrication may be combustible.

**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.

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**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
Carbon black	1333-86-4	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup> (without Polycyclic aromatic hydrocarbons (PAHs); when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen.)	3 mg/m <sup>3</sup> (IHL)
Morpholine	110-91-8	20 ppm/70 mg/m <sup>3</sup>	20 ppm (Short Term Exposure Limit) 30 ppm	20 ppm

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

**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	Density (25 °C):	Not applicable
Odor:	None	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):	1.80
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>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Carbon Black	LD50 Oral	Rat	> 15,400 mg/kg
Carbon Black	LD50 Oral	Rabbit	> 3000 mg/kg
p -Toluenesulfonic acid	Oral LD50	Rat	1410 mg/kg
Morpholine	Oral LD50	Rat	1050 mg/kg
Morpholine	Dermal LD50	Rabbit	310 - 810 mg/kg
Morpholine	Inhalation LC50	Rat	8000 ppm/8 h

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:

Carbon black (airborne, unbound particles of respirable size) is listed as a California Proposition 65 Carcinogen.

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>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Carbon Black	Acute LC50: 61.5 mg/L (Fresh water)	D. magna	48 hours
Morpholine	Acute LC50: 350 mg/L (Static) Acute LC50: 375-460 mg/L Acute LC50: >1000 mg/L (Static) Acute LC50: 28 mg/L (Static)	L. macrochirus O. mykiss B. rerio P. subcapitata (algae)	96 hours 96 hours 96 hours 96 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:** This product does not contain any toxic chemicals listed under 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA).

**Clean Air Act (CAA):** This product does not contain any toxic chemicals under Section 112 of the Clean Air Act.

**Clean Water Act (CWA):** Contains no known toxic pollutants or priority pollutants at concentrations greater than 0.1%.

**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 formaldehyde, phenol and carbon black, 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).

Formaldehyde	< 0.1%
Phenol	< 0.1%
Carbon Black	≤ 0.1%

Massachusetts:	Carbon Black	1333-86-4
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New Jersey:	Carbon Black	1333-86-4
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Pennsylvania:	Carbon Black	1333-86-4
	Benzenesulfonic Acid, 4-Methyl-	104-15-4
	Morpholine	110-91-8

**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 Abstract 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
	SDS:	Safety data sheet
	mg/kg:	Milligrams per kilogram
	mm Hg:	Millimeters of mercury
	N/A:	Not applicable
	NIOSH:	National Institute of 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
	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 May 19, 2018  
SDS revised on October 4, 2018

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**End of Safety Data Sheet**