

# MATERIAL SAFETY DATA SHEET

High Build Epoxy

FILE NO.: DM200  
MSDS DATE: 03/15

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION – Part A

PRODUCT NAME: High Build Epoxy  
SYNONYMS: N/A  
PRODUCT CODES: SKU 20200 pt. A

MANUFACTURER: Shield Products, Inc.  
DIVISION: N/A  
ADDRESS: 6010 NW 99<sup>th</sup> Ave. Doral, Florida 33178

EMERGENCY PHONE: 904-880-6060  
CHEMTREC PHONE: 800-424-9300  
OTHER CALLS: N/A  
FAX PHONE: N/A

### SECTION 1 NOTES:

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION – Part B

PRODUCT NAME: HighBuild Epoxy Catalyst  
SYNONYMS: N/A  
PRODUCT CODES: SKU 20200 pt.B

MANUFACTURER: Shield Products, Inc.  
DIVISION: N/A  
ADDRESS: 6010 NW 99<sup>th</sup> Ave. Doral, Florida 33178

EMERGENCY PHONE: 904-880-6060  
CHEMTREC PHONE: 800-424-9300  
OTHER CALLS:  
FAX PHONE:

### SECTION 1 NOTES:

## SECTION 2: HAZARDS IDENTIFICATION – Part A

CHEMICAL INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV	VAPOR PRESS mmHg @ TEMP	SARA SEC. 313 *	WT. PERCENT
METHYL ISOBUTYL KETONE	108-10-1	100 PPM	50 PPM	<a href="#">28.0@68</a>	YES	5 - 15
XYLENE	1330-20-7	100 PPM	100 PPM	<a href="#">6.0@68</a>	YES	<5
TOLUENE	108-88-3	100 PPM	50 PPM	<a href="#">22.0@68</a>	YES	5
ETHYLENE GLYCOL BUTYL ETHER	111-76-2	25 PPM (Skin)	25 PPM (Skin)	<a href="#">0.6@68</a>	YES	5 - 10
N-BUTYL ALCOHOL	71-36-3	50 PPM		<a href="#">5.5@68</a>	YES	5
AROMATIC HYDROCARBON SOLVENT	64742-95-6	100 PPM	100 PPM	<a href="#">2.0@68</a>		5 - 10
1,2,4-TRIMETHYLBENZENE	95-63-6	25 PPM	25 PPM	N/A	YES	<5
SILICON DIOXIDE	7631-86-9	20 MPPCF	10 MG/M3	N/A		0 - 5
TITANIUM DIOXIDE	13463-67-7	15 MG/M3	10 MG/M3	N/A		0 - 35
IRON OXIDE	1309-37-1	5 MG/M3		N/A		0 - 5
IRON OXIDE	1309-37-1	10 MG/M3	10 MG/M3	N/A		0 - 30
BARIUM SULFATE	7727-43-7	10 MG/M3	10 MG/M3	N/A		0 - 10
STRONTIUM CHROMATE	7789-06-2			N/A	YES	0 - 15
CARBON BLACK	1333-86-4	3.5 MG/M3	3.5 MG/M3	N/A		0 - 5
COPPER PHTHALOCYANINE	147-14-8	1 MG/M3	1 MG/M3	N/A		0 - 2
YELLOW IRON OXIDE	51274-00-1	10 MG/M3	10 MG/M3	N/A		0 - 5
CHROMIUM OXIDE	1308-38-9	1 MG/M3	0.5 MG/M3	N/A	YES	0 - 35
NICKEL TITANATE	8007-18-9	15 MG/M3	15 MG/M3	N/A	YES	
		(for TiO2)	(for TiO2)			0 - 10

\* Ingredients marked YES are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS – Part B

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CHEMICAL INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV	VAPOR PRESS mmHg @ TEMP	SARA SEC. 313 *	WT. PERCENT
POLYAMIDE RESIN	68410-23-1	Unkown	Unknown	N/A		85
XYLENE	1330.20-7	100 ppm	100 ppm	<a href="#">6.0@88</a>	YES	15
N-SIJ YL ALCOHOL	7t-36-3	50 PPM		55@68	YES	15
GLACIAL ACETIC ACID	8419-7	10 PPM		11.0@68		<5

### SECTION 2 NOTES:

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## SECTION 3: FIRST AID MEASURES – Part A & B

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**EYES:** Severe irritation, redness, tearing, blurred vision. May be a sensitizer in some individuals

**SKIN:** Liquid can be absorbed through the skin resulting in symptoms similar to the inhalation effects above.

**INGESTION:** Gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly even death.

**INHALATION:** Anesthetic. Excessive inhalation can cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion, unconsciousness, coma and even asphyxiation.

### SECTION 3 NOTES:

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## SECTION 4: FIRE-FIGHTING MEASURES – Part A

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**FLAMMABLE LIMITS IN AIR, UPPER:** 10.6  
(% BY VOLUME)                      **LOWER:** 1.0

**FLASH POINT:** 77oF  
**METHOD USED:** SETAFLASH

**EXTINGUISHING MEDIA:** FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

**SPECIAL FIRE FIGHTING PROCEDURES:** During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Keep containers tightly closed. Isolate from heat, sparks, and open flame.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Full protective equipment including selfcontained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up.

### SECTION 4 NOTES:

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## SECTION 4: FIRE-FIGHTING MEASURES – Part B

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FLAMMABLE LIMITS IN AIR, UPPER: 19.9

(% BY VOLUME) LOWER: 1.0

FLASH POINT: 97 F

METHOD USED: Setflash

**SPECIAL FIRE FIGHTING PROCEDURES:** During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Keep containers tightly closed. Isolate from heat, sparks, and open flame.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Full protective equipment including selfcontained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up.

SECTION 4 NOTES:

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## SECTION 5: ACCIDENTAL RELEASE MEASURES – Part A & B

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**ACCIDENTAL RELEASE MEASURES:** Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

SECTION 5 NOTES:

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## SECTION 6: HANDLING AND STORAGE \_part A & B

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**HANDLING AND STORAGE:** Do not store above 120 F. Store large quantities only in buildings designed to comply with OSHA 1910.106. Keep closures tight and container upright to prevent leakage. Do not store or use near heat, sparks or flame. Never use pressure to empty. Drum must not be washed out or used for other purposes. Drums of this material should be grounded when pouring.

**OTHER PRECAUTIONS:** Do not get in eyes. Avoid skin contact. Can cause allergic respiratory reaction. Can cause allergic skin reaction. Prevent prolonged or repeated breathing of vapors or spray mist. Avoid breathing of sanding dust. Wash contaminated clothing thoroughly. Wash skin thoroughly with soap and water after handling. Close container after each use. Do not transfer this product to unlabeled containers. Do not handle until the manufacturer's safety precautions have been read and understood. Keep out of reach of children.

SECTION 6 NOTES:

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## SECTION 7: EXPOSURE CONTROLS/PERSONAL PROTECTION – Part A & B

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### ENGINEERING CONTROLS

**VENTILATION :** All application areas should be ventilated in accordance to OSHA regulation 29 CFR 1910.94, 1910.107, 1910.108. Remove decomposition products formed during welding or flame cutting on surface coated with this product. If baking, vent fumes. These coatings may contain materials classified as nuisance particulates which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are

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ACGIH TLV 10 mg/m<sup>3</sup> (total dust), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**RESPIRATORY PROTECTION:** Use a NIOSH-approved respirator to prevent overexposure, when exposure exceeds occupational exposure limits (Section II). Use either an atmospheresupplying respirator or an air-purifying respirator for organic vapors in compliance with 29 CFR 1910.134, with provision for mist removal if conditions so indicate.

**EYE PROTECTION:** Safety eyewear including splashguards or side shields recommended

**SKIN PROTECTION:**

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Use protective outerwear and prevent prolonged skin contact with contaminated clothing.

**WORK HYGIENIC PRACTICES:** Avoid breathing vapors and contact with skin. Wash skin thoroughly before breaks and meals and at end of work period.

**EXPOSURE GUIDELINES:**

**SECTION 7 NOTES:**

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## SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES – Part A

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**APPEARANCE:** Liquid

**ODOR:** Typical paint solvent odor

**PHYSICAL STATE:**

**EVAPORATION RATE:** Slower than ether

**SOLUBILITY IN WATER:** Negligible

**VOLATILE ORGANIC COMPOUNDS (VOC):** 3.89 lb/gal

**SECTION 8 NOTES:**

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## SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES – Part B

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**APPEARANCE:** Liquid

**ODOR:** Typical paint solvent odor

**BOILING POINT:** 240 F

**VAPOR DENSITY (AIR = 1):** Heavier than air

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.9

**EVAPORATION RATE:** Slower than ether

**SOLUBILITY IN WATER:** Negligible

**PERCENT SOLIDS BY WEIGHT:**

**PERCENT VOLATILE:**

BY WT/ BY VOL @

F:

C:

**VOLATILE ORGANIC COMPOUNDS (VOC):** 2.19 lb/gal

**SECTION 8 NOTES:**

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## SECTION 9: STABILITY AND REACTIVITY – Part A & B

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**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** High Temperatures

**INCOMPATIBILITY (MATERIAL TO AVOID):** Oxidizing materials

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** May produce hazardous fumes when heated to decomposition as in welding.

**HAZARDOUS POLYMERIZATION:** Will not occur

**SECTION 9 NOTES:**

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## SECTION 10: DISPOSAL CONSIDERATIONS – Part A & B

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**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state and federal regulations. Incinerate in approved facility. Do not incinerate closed containers.

**SECTION 10 NOTES:**