



Material Safety Data Sheet: HighBuild Epoxy Flooring

StaticWorx High-Build Epoxy Primer Part A MATERIAL SAFETY DATA SHEET

TRADE NAME: StaticWorx High-Build Epoxy Primer Part A

HMIS Rating: Health-3 Fire-1 Reactivity-1

UPC: 00-51138-55308-1

ISSUED: January 1, 2002

Phone: 617-923-2000

SUPERSEDE: January 1, 2001

Fax: 617-923-2009

24/7 Emergency: 800-222-1222

<i>1. INGREDIENT</i>	C.A.S. NUMBER	PERCENT
EPOXY RESIN	25068-38-6	40.0-50.0
QUARTZ SILICA	14808-60-7	20.0-30.0
ALKYL (C12-C14) GLYCIDYL ETHER	68609-97-2	10.0-15.0
ACRYLATE COPOLYMER	UNKNOWN	1.0-5.0

NOTE: IN CASE OF EMERGENCY: CALL 800-222-1222 OR YOUR LOCAL POISON CONTROL CENTER FOR ALL EMERGENCIES WITH THIS PRODUCT. The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS).

<i>2. PHYSICAL DATA</i>	
BOILING POINT	230° C
VAPOR PRESSURE	Ca. 0.1 mmHg (180 DEGREES C)
VAPOR DENSITY	N/D
EVAPORATION RATE	0.7 Butyl Acetate = 1
SOLUBILITY IN WATER	Nil
SP GRAVITY	1.17 Water = 1
PERCENT VOLATILE	N/D
PH	N/A
VISCOSITY	N/D
MELTING POINT	N/A
APPEARANCE AND ODOR	Liquid with slight odor

Abbreviations are as follows:

N/D – Not Determined

N/A – Not Applicable

CA – Approximately

3. FIRE AND EXPLOSION HAZARD DATA	
FLASH POINT	252 C
FLAMMABLE LIMITS - LEL	N/D
FLAMMABLE LIMITS - UEL	N/D
AUTO IGNITION TEMPERATURE	N/D

3. FIRE AND EXPLOSION HAZARD DATA (continued)

EXTINGUISHING MEDIA: Water Spray, carbon Dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS: See Hazardous Decomposition section for products of combustion.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0

UNUSUAL REACTION HAZARD: None.

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid.

4. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY – MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Aldehydes, Irritant Vapors or Gasses.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL: Incinerate in an industrial or commercial facility in the presence of a combustible material. Disposal alternative: Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DISPOSAL: Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D

VOC Less H₂O & Exempt Solvents: N/D

Since regulations vary, consult applicable regulations or authorities before disposal.

EPCRA HAZARD CLASS: FIRE HAZARD: No PRESSURE: No

REACTIVITY: No ACUTE: Yes CHRONIC: Yes

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
EPOXY RESIN	NONE	NONE	NONE	NONE	
QUARTZ SILICA (as quartz resp. dust)	0.1	mg/m ³	TWA	ACGIH	
QUARTZ SILICA (as quartz resp. dust)	0.1	mg/m ³	TWA	OSHA	

ALKYL (C-12-C14)	NONE	NONE	NONE	NONE	
GLYCIDYL ETHER					
ACRYLATE COPOLYMER	NONE	NONE	NONE	NONE	

6. SUGGESTED FIRST AID:

EYE CONTACT: Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT: Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED: Drink two glasses of water. Call physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION: Avoid eye contact. Wear vented goggles.

SKIN PROTECTION: Avoid skin contact. Wear appropriate gloves when handling this material. Use one or more of the following personal protection items as necessary to prevent skin contact: apron, booties.

VENTILATION PROTECTION: Use in well ventilated area.

RESPIRATORY PROTECTION: Avoid breathing vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator, full-face organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION: Do not ingest.

RECOMMENDED STORAGE: Store in cool place. Keep container dry.

FIRE AND EXPLOSION AVOIDANCE: Not applicable.

EXPOSURE LIMITS

***SKIN NOTATION:** Listed substances with “Y” under SKIN refer to the potential contribution to the overall exposure by the coetaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association. Workplace Environmental Exposure Level.

OSHA: Occupational Safety and Health Administration

None: Not established.

8. HEALTH HAZARD DATA

EYE CONTACT: Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT: Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching. Moderate skin irritation: signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION: Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing. WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD

COMMUNICATING STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Silicosis: signs/symptoms can include shortness of breath and persistent coughing.

IF SWALLOWED: Gastrointestinal Effects: signs/symptoms generally will include abdominal pain.

CANCER: WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

WARNING: Contains a chemical which can cause cancer. (14808-60-7) (NTP anticipated human carcinogen, IARC1 – human carcinogen, Califi. Proposition 65).

StaticWorx High-Build Conductive Gound Plane, Part B
MATERIAL SAFETY DATA SHEET

TRADE NAME: StaticWorx High-Build Conductive Ground Plane Part B
HMIS Rating: Health-3 Fire-1 Reactivity-1 **UPC:** 00-51138-55313-5
ISSUED: January 1, 2002 **Phone:** 617-923-2000
SUPERSEDE: January 1, 2001 **Fax:** 617-923-2009
24/7 Emergency: 800-222-1222

<i>I. INGREDIENT</i>	<i>C.A.S. NUMBER</i>	<i>PERCENT</i>
POLYMERIC FATTY ACID AMIDE	TRADE SECRET	70.0-80.0
BENZYL ALCOHOL	100-51-6	20.0-30.0

NOTE: IN CASE OF EMERGENCY: CALL 800-222-1222 OR YOUR LOCAL POISON CONTROL CENTER FOR ALL EMERGENCIES WITH THIS PRODUCT. The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS).

<i>2. PHYSICAL DATA</i>	
BOILING POINT	N/D
VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
EVAPORATION RATE	N/D
SOLUBILITY IN WATER	N/D
SP GRAVITY	N/D
PERCENT VOLATILE	N/D
PH	N/A
VISCOSITY	N/D
MELTING POINT	N/A
APPEARANCE AND ODOR	Viscous amber liquid with an amine odor

<i>3. FIRE AND EXPLOSION HAZARD DATA</i>	
FLASH POINT	>100 C
FLAMMABLE LIMITS - LEL	N/D
FLAMMABLE LIMITS - UEL	N/D
AUTO IGNITION TEMPERATURE	N/D

3. FIRE AND EXPLOSION HAZARD DATA (continued)

EXTINGUISHING MEDIA: Carbon Dioxide, dry chemical, alcohol-type foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water or foam may cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not determined.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0
UNUSUAL REACTION HAZARD: None.

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid.

4. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY – MATERIALS TO AVOID: Strong Acids.

HAZARDOUS POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Amine Compounds.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL: Incinerate in an industrial or commercial facility in the presence of a combustible material. Disposal alternative: Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DISPOSAL: Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D

VOC Less H₂O & Exempt Solvents: N/D

Since regulations vary, consult applicable regulations or authorities before disposal.

EPCRA HAZARD CLASS: **FIRE HAZARD:** Yes **PRESSURE:** No

REACTIVITY: No **ACUTE:** Yes **CHRONIC:** Yes

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
POLYMERIC FATTY ACID AMIDE	NONE	NONE	NONE	NONE	
BENZYL ALCOHOL	10	ppm	TWA	AIHA	

2. SUGGESTED FIRST AID:

EYE CONTACT: Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT: Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION: If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED: Do not induce vomiting. Drink two glasses of water. Call physician.

3. **PRECAUTIONARY INFORMATION**

EYE PROTECTION: Avoid eye contact. Wear vented goggles.

SKIN PROTECTION: Avoid skin contact. Wear appropriate gloves when handling this material. Use one or more of the following personal protection items as necessary to prevent skin contact: apron, booties.

VENTILATION PROTECTION: Use in well ventilated area.

RESPIRATORY PROTECTION: Avoid breathing vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION: Do not ingest.

RECOMMENDED STORAGE: Store in cool place. Keep container dry.

FIRE AND EXPLOSION AVOIDANCE: Not applicable.

EXPOSURE LIMITS

***SKIN NOTATION:** Listed substances with “Y” under SKIN refer to the potential contribution to the overall exposure by the coetaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA: AIHA: American Industrial Hygiene Association. Workplace Environmental Exposure Level.
None: Not established.

4. **HEALTH HAZARD DATA**

EYE CONTACT: Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT: Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching. Moderate skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION: Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, in coordination, slowed reaction time, slurred speech, giddiness and unconsciousness, nose and throat, coughing and sneezing. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED: Irritation of the Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomit, and blood in feces.

StaticWorx High-Build Epoxy Ground Plane Part A

MATERIAL SAFETY DATA SHEET

TRADE NAME: High Build Epoxy Ground Plane Part A

HMIS Rating: Health-3 Fire-1 Reactivity-1

UPC: 00-51138-55310-4

Phone: 617-923-2000

ISSUED: January 1, 2002

Fax: 617-923-2009

SUPERSEDE: January 1, 2001

24/7 Emergency: 800-222-1222

<i>1. INGREDIENT</i>	<i>C.A.S. NUMBER</i>	<i>PERCENT</i>
EPOXY RESIN	25068-38-6	10.0-30.0
WATER	7732-18-5	40.0-70.0
CARBON BLACK	1333-86-4	10.0-30.0
POLYMERIC DISERSANT	TRADE SECRET	1.0-5.0

NOTE: IN CASE OF EMERGENCY: Please dial 800-222-1222 (or your local poison control center). The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS).

<i>2. PHYSICAL DATA</i>	
BOILING POINT	>500 F
VAPOR PRESSURE	N/D
VAPOR DENSITY	N/A
EVAPORATION RATE	N/A
SOLUBILITY IN WATER	PARTIAL
SP GRAVITY	1.16
PERCENT VOLATILE	N/A
PH	N/D
VISCOSITY	N/D
MELTING POINT	N/D
APPEARANCE AND ODOR	Clear, light colored, viscous liquid w/ mild odor

<i>3. FIRE AND EXPLOSION HAZARD DATA</i>	
FLASH POINT	>200 F Seta Flash
FLAMMABLE LIMITS - LEL	N/A
FLAMMABLE LIMITS - UEL	N/A
AUTO IGNITION TEMPERATURE	N/D

EXTINGUISHING MEDIA: Water Spray, carbon Dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS: See Hazardous Decomposition section for products of combustion.

NFPA HAZARD CODES:

HEALTH: 2 FIRE: 1 REACTIVITY: 0 UNUSUAL REACTION HAZARD: None.

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid.

3. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY – MATERIALS TO AVOID: Strong Acids, strong bases, strong oxidizing agents, amines.

HAZARDOUS POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Aldehydes, Hydrogen Bromide, Toxic Vapors, Gases or Particulates.

4. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of a combustible material.

ENVIRONMENTAL DISPOSAL:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D

VOC Less H₂O & Exempt Solvents: N/D

Since regulations vary, consult applicable regulations or authorities before disposal.

EPCRA HAZARD CLASS:

FIRE HAZARD: No

PRESSURE: No

REACTIVITY: No

ACUTE: Yes

CHRONIC: Yes

5. SUGGESTED FIRST AID:

EYE CONTACT: Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT: Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION: If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED: Do not induce vomiting. Drink two glasses of water. Call physician.

6. PRECAUTIONARY INFORMATION

EYE PROTECTION: Avoid eye contact. Wear vented goggles during operations in which exposure is likely.

SKIN PROTECTION: Avoid skin contact. Wear appropriate gloves when handling this material. Use one or more of the following personal protection items as necessary to prevent skin contact: apron, coveralls.

VENTILATION PROTECTION: Use in well ventilated area.

RESPIRATORY PROTECTION: Avoid breathing vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator, full-face organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION: Do not ingest.

RECOMMENDED STORAGE: Store away from heat. Store out of direct sunlight. Keep container dry. Keep container in well-ventilated area.

FIRE AND EXPLOSION AVOIDANCE: Keep away from heat, sparks, open flame, and other sources of ignition.

EXPOSURE LIMITS:

***SKIN NOTATION:** Listed substances with “Y” under SKIN refer to the potential contribution to the overall exposure by the coetaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association. Workplace Environmental Exposure Level.

OSHA: Occupational Safety and Health Administration

None: Not established.

7. HEALTH HAZARD DATA

EYE CONTACT: Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT: Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching. Moderate skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION: Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED: Irritation of the Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomit, and blood in feces.

CANCER: WARNING: Contains a chemical which can cause cancer. (1333-86-4) (IARC possible human carcinogen 2B).

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
EPOXY RESIN	NONE	NONE	NONE	NONE	
CARBON BLACK	3.5	mg/m3	TWA	ACGIH	
CARBON BLACK	3.5	mg/m3	TWA	OSHA	
POLYMERIC DISPERSANT	NONE	NONE	NONE	NONE	

StaticWorx High-Build Conductive Ground Plane, Part B
MATERIAL SAFETY DATA SHEET

TRADE NAME: StaticWorx High-Build Conductive Ground Plane Part B
HMIS Rating: Health-3 Fire-1 Reactivity-1 **UPC:** 00-51138-55313-5
ISSUED: January 1, 2002 **Phone:** 617-923-2000
SUPERSEDE: January 1, 2001 **Fax:** 617-923-2009
24/7 Emergency: 800-222-1222

<i>I. INGREDIENT</i>	<i>C.A.S. NUMBER</i>	<i>PERCENT</i>
POLYMERIC FATTY ACID AMIDE	TRADE SECRET	70.0-80.0
BENZYL ALCOHOL	100-51-6	20.0-30.0

NOTE: IN CASE OF EMERGENCY: CALL 800-222-1222 OR YOUR LOCAL POISON CONTROL CENTER FOR ALL EMERGENCIES WITH THIS PRODUCT. The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS).

<i>2. PHYSICAL DATA</i>	
BOILING POINT	N/D
VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
EVAPORATION RATE	N/D
SOLUBILITY IN WATER	N/D
SP GRAVITY	N/D
PERCENT VOLATILE	N/D
PH	N/A
VISCOSITY	N/D
MELTING POINT	N/A
APPEARANCE AND ODOR	Viscous amber liquid with an amine odor

<i>3. FIRE AND EXPLOSION HAZARD DATA</i>	
FLASH POINT	>100 C
FLAMMABLE LIMITS - LEL	N/D
FLAMMABLE LIMITS - UEL	N/D
AUTO IGNITION TEMPERATURE	N/D

4. FIRE AND EXPLOSION HAZARD DATA (continued)

Abbreviations are as follows:
N/D – Not Determined N/A – Not Applicable CA – Approximately

EXTINGUISHING MEDIA: Carbon Dioxide, dry chemical, alcohol-type foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water or foam may cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not determined.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0

UNUSUAL REACTION HAZARD: None.

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid.

5. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY – MATERIALS TO AVOID: Strong Acids.

HAZARDOUS POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Amine Compounds.

6. ENVIRONMENTAL INFORMATION

SPILL RESPONSE: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL: Incinerate in an industrial or commercial facility in the presence of a combustible material. Disposal alternative: Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DISPOSAL: Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D

VOC Less H₂O & Exempt Solvents: N/D

Since regulations vary, consult applicable regulations or authorities before disposal.

EPCRA HAZARD CLASS: FIRE HAZARD: Yes PRESSURE: No

REACTIVITY: No ACUTE: Yes CHRONIC: Yes

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
POLYMERIC FATTY ACID AMIDE	NONE	NONE	NONE	NONE	
BENZYL ALCOHOL	10	ppm	TWA	AIHA	

7. SUGGESTED FIRST AID:

EYE CONTACT: Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT: Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION: If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED: Do not induce vomiting. Drink two glasses of water.
Call physician.

8. **PRECAUTIONARY INFORMATION**

EYE PROTECTION: Avoid eye contact. Wear vented goggles.

SKIN PROTECTION: Avoid skin contact. Wear appropriate gloves when handling this material. Use one or more of the following personal protection items as necessary to prevent skin contact: apron, booties.

VENTILATION PROTECTION: Use in well ventilated area.

RESPIRATORY PROTECTION: Avoid breathing vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION: Do not ingest.

RECOMMENDED STORAGE: Store in cool place. Keep container dry.

FIRE AND EXPLOSION AVOIDANCE: Not applicable.

EXPOSURE LIMITS

***SKIN NOTATION:** Listed substances with “Y” under SKIN refer to the potential contribution to the overall exposure by the coetaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

AIHA: American Industrial Hygiene Association. Workplace Environmental Exposure Level.

None: Not established.

9. **HEALTH HAZARD DATA**

EYE CONTACT: Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT: Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching. Moderate skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION: Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, in coordination, slowed reaction time, slurred speech, giddiness and unconsciousness, nose and throat, coughing and sneezing. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED: Irritation of the Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomit, and blood in feces.

StaticWorx High-Build Conductive Top Coat, Part A
MATERIAL SAFETY DATA SHEET

TRADE NAME: High Build Conductive Top Coat Part A **HMIS Rating:** Health-3 Fire-1
UPC: 00-51138-55312-8 **Reactivity:** 1
ISSUED: January 1, 2002 **Phone:** 617-923-2000
SUPERSEDE: January 1, 2001 **Fax:** 617-923-2009
24/7 Emergency: 903-815-5938

1. INGREDIENT	C.A.S. NUMBER	PERCENT
EPOXY RESIN	25068-38-6	20.0-40.0
QUARTZ SILICA	14808-60-7	20.0-30.0
TITANIUM DIOXIDE	13463-67-7	7.0-13.0
ALKYL (C12-C14) GLYCIDYL ETHER	68609-97-2	5.0-10.0
ACRYLATE COPOLYMER	UNKNOW N	1.0-5.0

NOTE: IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT. The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS).

2. PHYSICAL DATA	
BOILING POINT	230 C
VAPOR PRESSURE	Ca. 0.1 mmHg (180 DEGREES C)
VAPOR DENSITY	N/D
EVAPORATION RATE	0.7 Butyl Acetate = 1
SOLUBILITY IN WATER	Nil
SP GRAVITY	1.17 Water = 1
PERCENT VOLATILE	0%
PH	N/A
VISCOSITY	2700-6400 CPS
MELTING POINT	N/A
APPEARANCE AND ODOR	Liquid with slight odor

3. FIRE AND EXPLOSION HAZARD DATA	
FLASH POINT	252 C
FLAMMABLE LIMITS - LEL	N/D
FLAMMABLE LIMITS - UEL	N/D
AUTO IGNITION TEMPERATURE	N/D

4. FIRE AND EXPLOSION HAZARD DATA (continued)

EXTINGUISHING MEDIA: Water Spray, carbon Dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 0 REACTIVITY: 0

UNUSUAL REACTION HAZARD: None.

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid.

5. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY – MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Aldehydes, Irritant Vapors or Gasses.

6. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of a combustible material.

Disposal alternative: Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DISPOSAL:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 0%

VOC Less H₂O & Exempt Solvents: 0%

Since regulations vary, consult applicable regulations or authorities before disposal.

EPCRA HAZARD CLASS: FIRE HAZARD: No PRESSURE: No

REACTIVITY: No ACUTE: Yes CHRONIC: Yes

7. SUGGESTED FIRST AID:

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Drink two glasses of water. Call physician.

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
EPOXY RESIN	NONE	NONE	NONE	NONE	
QUARTZ SILICA (as quartz resp. dust)	0.1	mg/m3	TWA	ACGIH	
QUARTZ SILICA (as quartz resp. dust)	0.1	mg/m3	TWA	OSHA	
TITANIUM DIOXIDE	10	mg/m3	TWA	ACGIH	
TITANIUM DIOXIDE	10	mg/m3	TWA	OSHA	
ALKYL (C-12-C14)					
GLYCIDYL ETHER	NONE	NONE	NONE	NONE	
ACRYLATE COPOLYMER	NONE	NONE	NONE	NONE	

8. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. Use one or more of the following personal protection items as necessary to prevent skin contact: apron, booties.

VENTILATION PROTECTION:

Use in well ventilated area.

RESPIRATORY PROTECTION:

Avoid breathing vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator, full-face organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store in cool place. Keep container dry.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

EXPOSURE LIMITS

***SKIN NOTATION:** Listed substances with “Y” under SKIN refer to the potential contribution to the overall exposure by the coetaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

None: Not established.

9. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Moderate skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATIO STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Silicosis: signs/symptoms can include shortness of breath and persistent coughing.

IF SWALLOWED:

Gastrointestinal Effects: signs/symptoms generally will include abdominal pain.

CANCER:

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

WARNING: Contains a chemical which can cause cancer. (14808-60-7) (NTP anticipated human carcinogen, IARC1 – human carcinogen, Calfi. Proposition 65).

StaticWorx High-Build Conductive Top Coat, Part B
MATERIAL SAFETY DATA SHEET

TRADE NAME: High Build Conductive Top coat Part B **HMIS Rating:** Health-3 Fire-1
UPC: 00-51138-55313-5 **Reactivity:** 1
ISSUED: January 1, 2002 **Phone:** 617-923-2000
SUPERSEDE: January 1, 2001 **Fax:** 617-923-2009
24/7 Emergency: 903-815-5938

<i>1. INGREDIENT</i>	<i>C.A.S. NUMBER</i>	<i>PERCENT</i>
POLYMERIC FATTY ACID AMIDE	TRADE SECRET	70.0-80.0
BENZYL ALCOHOL	100-51-6	20.0-30.0

NOTE: IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT. The components of this product are in compliance with the chemical notification requirements of TSCA. All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS).

<i>2. PHYSICAL DATA</i>	
BOILING POINT	N/D
VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
EVAPORATION RATE	N/D
SOLUBILITY IN WATER	N/D
SP GRAVITY	N/D
PERCENT VOLATILE	N/D
PH	N/A
VISCOSITY	N/D
MELTING POINT	N/A
APPEARANCE AND ODOR	Viscous amber liquid with an amine odor

<i>3. FIRE AND EXPLOSION HAZARD DATA</i>	
FLASH POINT	>100 C
FLAMMABLE LIMITS - LEL	N/D
FLAMMABLE LIMITS - UEL	N/D
AUTO IGNITION TEMPERATURE	N/D

4. FIRE AND EXPLOSION HAZARD DATA (continued)

EXTINGUISHING MEDIA: Carbon Dioxide, dry chemical, alcohol-type foam.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water or foam may cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not determined.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0

UNUSUAL REACTION HAZARD: None.

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid.

5. REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY – MATERIALS TO AVOID: Strong Acids.

HAZARDOUS POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Amine Compounds.

6. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility in the presence of a combustible material. Disposal alternative: Dispose of completely cured (or polymerized) material in a sanitary **landfill**.

ENVIRONMENTAL DISPOSAL:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/D

VOC Less H₂O & Exempt Solvents: N/D

Since regulations vary, consult applicable regulations or authorities before disposal.

7. ENVIRONMENTAL INFORMATION (continued)

EPCRA HAZARD CLASS: FIRE HAZARD: Yes PRESSURE: No

REACTIVITY: No ACUTE: Yes CHRONIC: Yes

8. SUGGESTED FIRST AID:

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
POLYMERIC FATTY ACID AMIDE	NONE	NONE	NONE	NONE	
BENZYL ALCOHOL	10	ppm	TWA	AIHA	

and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call physician.

9. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. Use one or more of the following personal protection items as necessary to prevent skin contact: apron, booties.

VENTILATION PROTECTION:

Use in well ventilated area.

RESPIRATORY PROTECTION:

Avoid breathing vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store in cool place. Keep container dry.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

EXPOSURE LIMITS

***SKIN NOTATION:** Listed substances with “Y” under SKIN refer to the potential contribution to the overall exposure by the coetaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

AIHA: American Industrial Hygiene Association. Workplace Environmental Exposure Level.

None: Not established.

10. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Moderate skin Irritation: signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, in coordination, slowed reaction time, slurred speech, giddiness and unconsciousness, nose and throat, coughing and sneezing. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Irritation of the Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomit, and blood in feces.