

BioLogic Chemical Works

MATERIAL SAFETY DATA SHEET

MFG.CODE # 183A

SECTION I

| | | | |
|---|--|---|--|
| MANUFACTURER'S NAME BioLogic Chemical Works | | EMERGENCY TELEPHONE NO. (248)941-0347 | |
| ADDRESS (Street, City, State and Zip Code) P. O. BOX 82501, Rochester, MI 48308 | | | |
| CHEMICAL NAME AND SYNONYMS N/A | | TRADE NAME AND SYNONYMS BioLogic Floor Renew (PART A) | |
| CHEMICAL FAMILY N/A | | FORMULA N/A | |

SECTION II – HAZARDOUS INGREDIENTS

| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | % | TLV (UNITS) |
|---|-------------------------|-------------|
| Bisphenol A/Epichlorohydrin Based Epoxy Resin | (CAS# 25068-38-6) >1 | N/A |
| Multifunctional Acrylate Monomer | (CAS# 13048-33-4) >1 | N/A |
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All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

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|---|------------|---|--------|
| BOILING POINT °F | 200+ | SPECIFIC GRAVITY (H ₂ O = 1) | 1.13 |
| VAPOR PRESSURE (mm. Hg. @ 20°C) | 0.09 | PERCENT VOLATILE BY VOLUME (%) | 0 |
| VAPOR DENSITY (AIR = 1) | heavier | EVAPORATION RATE (=1) N-Butyl Acetate | slower |
| SOLUBILITY IN WATER | negligible | PH | N/A |
| APPEARANCE AND ODOR Clear to light amber viscous liquid with characteristic acrylate odor. | | | |

SECTION IV – FIRE AND EXPLOSION DATA

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|---|------------------|-----|------------|
| FLASH POINT (Method Used) | FLAMMABLE LIMITS | LeI | UeI |
| 200+°F (Setaflash) | | Not | Determined |
| EXTINGUISHING MEDIA Water Fog, Dry Chemical, Foam, Carbon Dioxide | | | |
| SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of containers. | | | |

(Continued on reverse side)

BioLogic Chemical Works

MATERIAL SAFETY DATA SHEET

MFG.CODE # 183B

SECTION I

| | | | |
|---|--|---|--|
| MANUFACTURER'S NAME BioLogic Chemical Works | | EMERGENCY TELEPHONE NO. (248)941-0347 | |
| ADDRESS (Street, City, State and Zip Code) P. O. BOX 82501, Rochester, MI 48308 | | | |
| CHEMICAL NAME AND SYNONYMS N/A | | TRADE NAME AND SYNONYMS BioLogic Floor Renew (PART B) | |
| CHEMICAL FAMILY N/A | | FORMULA N/A | |

SECTION II – HAZARDOUS INGREDIENTS

| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | % | TLV (UNITS) |
|---|-------------------|---------------|
| Nonyl Phenol | (CAS# 84852-15-3) | >1 2 mg/l |
| m-Xylene Diamine | (CAS# 1477-55-0) | >1 700 ppm |
| Isophorone Diamine | (CAS# 2855-13-2) | >1 Not av. |
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All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

| | | | |
|---|---------|---|------|
| BOILING POINT °F | 475+ | SPECIFIC GRAVITY (H2O = 1) | 1.0 |
| VAPOR PRESSURE (mm. Hg.) | 0.1 | PERCENT VOLATILE BY VOLUME (%) | 0 |
| VAPOR DENSITY (AIR = 1) | Heavier | EVAPORATION RATE (=1) n-Butyl Acetate | 1 |
| SOLUBILITY IN WATER | Slight | PH | 11.5 |
| APPEARANCE AND ODOR Colored liquid with amine odor. | | | |

SECTION IV – FIRE AND EXPLOSION DATA

| | | | |
|--|-------------------------|------------|------------|
| FLASH POINT (Method Used) 200+°F Setaflash | FLAMMABLE LIMITS | LeI | UeI |
| | | N/A | N/A |
| EXTINGUISHING MEDIA Water Fog, Alcohol Foam, Dry Chemical, Carbon Dioxide | | | |
| SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS Nitrogen Oxides and Nitrogen containing organic material may be released upon combustion may cause lung damage (Pulmonary edema). | | | |

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SECTION V – HEALTH HAZARD DATA

| | | | |
|---|--|------|-------|
| THRESHOLD LIMIT VALUE 700 ppm/H | PRIMARY ROUTES OF ENTRY Inhalation X Skin Contact X Other (Specify) | | |
| EFFECTS OF OVEREXPOSURE Eyes- vapors and liquid are irritating and corrosive to eyes- prolonged contact may cause blindness. Skin- corrosive to skin, may cause sensitization. Inhalation- may be corrosive to upper respiratory tract, may be toxic if inhaled. Ingestion- corrosive to mouth, throat, and stomach. | | | |
| EMERGENCY AND FIRST AID PROCEDURE Eyes- flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation- get medical attention. Skin- remove contaminated clothing and flush with water and then wash with soap and water, launder contaminated clothing before reuse- get medical attention. Inhalation- remove to fresh air and assist breathing as necessary- get medical attention. Ingestion- Do Not Induce Vomiting- if conscious, give water and get medical attention immediately. | | | |
| MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Persons with pre-existing eye, skin, or respiratory disorders. | | | |
| CARCINOGEN: No | NTP | IARC | OTHER |

SECTION VI – REACTIVITY DATA

| | | | |
|---|-----------------------|---|--|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID Excessive heat and open flames |
| | STABLE | X | |
| INCOMPATIBILITY (Materials to avoid) Strong Oxidizers | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS Oxides of Carbon and Nitrogen, Nitrogen containing organic compounds | | | |
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | CONDITIONS TO AVOID None |
| | WILL NOT OCCUR | X | |

SECTION VII – SPILL OR LEAK PROCEDURES

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| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate all sources of ignition and ventilate area. Use absorbent material to soak up spill. Shovel or sweep into container for disposal. Clean area with detergent solution. | |
| WASTE DISPOSAL METHOD In accordance with all Local, State, and Federal Regulations. | |

SECTION VIII – SPECIAL PROTECTION INFORMATION

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|---|---|-----------------------|
| SPECIAL RESPIRATORY PROTECTION (Specify type) Use NIOSH approved respirator in areas where TLV has been exceeded. | | |
| VENTILATION | LOCAL EXHAUST To control TLV | SPECIAL N/A |
| | MECHANICAL (General) To control TLV | OTHER N/A |
| PROTECTIVE GLOVES Impervious | EYE PROTECTION Chemical Goggles | |
| OTHER PROTECTIVE EQUIPMENT Eyewash and safety shower | | |

SECTION IX – SPECIAL PRECAUTIONS

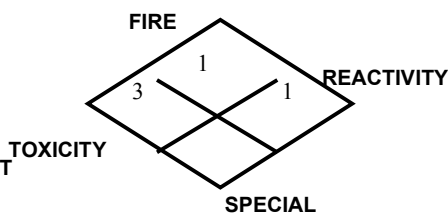
| | |
|--|--|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING CORROSIVE MATERIAL- avoid contact- wear protective clothing and wash thoroughly after using. Avoid inhalation of vapors or mists- use only with adequate ventilation. Do not take internally. Avoid storage in areas of excessive heat or near sources | |
| OTHER PRECAUTIONS of ignition. Keep Out of Reach of Children | |

HMIS SYMBOL

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|--------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 1 |
| REACTIVITY | 1 |

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|--|--|---|
| | HMIS SEVERE 4 SERIOUS 3 MODERAT 2 SLIGHT 1 MINIMAL 0 | NFPA EXTREME 4 HIGH 3 MODERATE 2 SLIGHT 1 INSIGNIFICANT 0 |
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NFPA SYMBOL



| | |
|-------------------------|-------------------------------|
| NAME | John Petoskey |
| SIGNATURE | |
| TITLE | Tech Support |
| PREPARATION DATE | July 9, 2009 |
| PHONE NUMBER | 248-941-0347 |
| PAGE TWO: | BioLogic Floor Renew (PART B) |

BioLogic Chemical Works

MATERIAL SAFETY DATA SHEET

MFG.CODE # 183C

SECTION I

| | | |
|---|--|---|
| MANUFACTURER'S NAME BioLogic Chemical Works | | EMERGENCY TELEPHONE NO. (248)941-0347 |
| ADDRESS (Street, City, State and Zip Code) P. O. BOX 82501, Rochester, MI 48308 | | |
| CHEMICAL NAME AND SYNONYMS N/A | TRADE NAME AND SYNONYMS BioLogic Floor Renew (PART C) | |
| CHEMICAL FAMILY N/A | FORMULA N/A | |

SECTION II – HAZARDOUS INGREDIENTS

| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | % | TLV (UNITS) |
|---|----|----------------------|
| Silicon Dioxide (CAS# 7631-86-9) | >1 | 10 mg/m ³ |
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All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

| | | | |
|---|-----------|---|-----------|
| BOILING POINT °F | N/A | SPECIFIC GRAVITY (H ₂ O = 1) | 70 lbs/ft |
| VAPOR PRESSURE (mm. Hg.) | N/A | PERCENT VOLATILE BY VOLUME (%) | 0 |
| VAPOR DENSITY (AIR = 1) | N/A | EVAPORATION RATE (=1) | N/A |
| SOLUBILITY IN WATER | insoluble | PH | N/A |
| APPEARANCE AND ODOR Tan granules with no odor. | | | |

SECTION IV – FIRE AND EXPLOSION DATA

| | | | |
|--|------------------|-----|-----|
| FLASH POINT (Method Used) None | FLAMMABLE LIMITS | LeI | Uel |
| | | N/A | N/A |
| EXTINGUISHING MEDIA Use extinguishing media suitable for fighting surrounding fire. | | | |
| SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS None | | | |

(Continued on reverse side)

