

# SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

|                             |                                              |                                    |                 |
|-----------------------------|----------------------------------------------|------------------------------------|-----------------|
| <b>PRODUCT NAME:</b>        | <b>Fiber</b>                                 | <b>DATE PREPARED:</b>              | January 1, 2009 |
| <b>GENERAL USE:</b>         | Fingernail overlay resin                     | <b>SUPPERSEDES:</b>                | May 1, 2008     |
| <b>PRODUCT DESCRIPTION:</b> | polyurethane acrylate prepolymer resin blend | <b>TELEPHONE NUMBER:</b>           | +1 541 526 1417 |
|                             |                                              | <b>EMERGENCY TELEPHONE NUMBER:</b> | +1 541 285 1283 |

|                                      |  |                                    |  |
|--------------------------------------|--|------------------------------------|--|
| <b>MANUFACTURER'S NAME</b>           |  |                                    |  |
| McConnell Labs, Inc.                 |  |                                    |  |
| <b>ADDRESS</b>                       |  | <b>TELEPHONE NUMBER:</b>           |  |
| 406 SW Umatilla Ave                  |  | +1 541 526 1417                    |  |
| <b>(CITY, STATE AND POSTAL CODE)</b> |  | <b>COUNTRY</b>                     |  |
| Redmond, OR 97756                    |  | USA                                |  |
|                                      |  | <b>EMERGENCY TELEPHONE NUMBER:</b> |  |
|                                      |  | +1 541 285 1283                    |  |

## SECTION 2 - HAZARDOUS INGREDIENTS

| COMPONENTS                                 | % (by weight) | CAS#       | EINECS #  | Hazard Symbol | RISK PHRASES (Full Text Section 16) |
|--------------------------------------------|---------------|------------|-----------|---------------|-------------------------------------|
| Polyurethane acrylate prepolymer resin     | 52-70         | N/A        | N/A       | Xi            | R-36/38                             |
| Polyurethane methacrylate prepolymer resin | 25-35         | N/A        | N/A       | Xi            | R-36/38                             |
| Tripropyleneglycol diacrylate              | 0-5           | 42978-66-5 | 256-032-2 | Xi            | R-36/38                             |
| 1-hydroxycyclohexylphenylketone            | 1-2           | 947-19-3   | 213-426-9 | none          | none                                |
| Benzophenone                               | 1-2           | 119-61-9   | 204-337-6 | none          | none                                |
| Silica                                     | 1-3           | 11294552-5 | 231-545-4 | none          | none                                |

c) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves or other appropriate equipment.

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Clear or pigmented liquid. Will support combustion. May cause complications if swallowed. Known allergen upon over exposure in some cases. Avoid skin contact. Inhalation of mist or liquid can cause respiratory irritation. Hazard symbols for the product - see section XV below Risk Phrases - see section XV below

### POTENTIAL HEALTH EFFECTS

**INHALATION:** No significant adverse health effects are expected to occur upon short-term exposure. Prolonged exposure to mists may cause an allergic reaction. Mists are defined as liquids that are in vaporous form. This would not be how the material is designed to be used or applied.

**SKIN:** No allergic reaction is expected to occur upon short term exposure. Individuals who are known to have allergies to acrylics, acrylic acids, carboxylic acids, epoxy resins or other UV cured products should avoid skin contact.

**EYES:** No adverse effects are known for this product upon short-term exposure to the eyes. It is best to avoid contact with the eye region and surrounding skin.

**INGESTION:** Non-toxic material. May cause gastric distress, but this is highly unlikely. Do not induce vomiting if ingested. If vomiting occurs, avoid aspiration of vomitus into the lungs.

|                         |      |    |                  |    |                 |    |
|-------------------------|------|----|------------------|----|-----------------|----|
| <b>CARCINOGENICITY:</b> | NTP? | NO | IARC MONOGRAPHS? | NO | OSHA REGULATED? | NO |
|-------------------------|------|----|------------------|----|-----------------|----|

Known to **not** be a **carcinogen**.

## SECTION 4 - FIRST AID MEASURES

**INHALATION:** In case of exposure to a high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention. There has never been any incidence of any inhalation incidence known to the manufacturer.

SKIN: Remove contaminated clothing and wash contact area with soap and water for 15 minutes. Particular attention should be paid to hair, nose, ears and other areas not easily cleaned. See section 8 . Note to physician: effects can be delayed 24-48 hours.

EYES: Flush with plenty of water for at least 15 minutes and seek medical attention.

INGESTION: If appreciable quantities are swallowed, seek medical attention.

### SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product will support combustion. Products of combustion will include compounds of carbon, nitrogen and oxygen including carbon monoxide.

EXTINGUISHING MEDIA: Carbon dioxide, water fog, dry chemical and chemical foam.

FIRE FIGHTING PROCEDURES: Firefighters must wear a full-face self-contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will cause fire to scatter and spread fire. Fine water spray can be used to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers can explode due to build-up of pressure due to extreme heat.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes, oxides of carbon, nitrogen containing compounds.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WILL SUPPORT COMBUSTION. Do not wash to sanitary sewer. All spills can be polymerized into a plastic with the use of UV light source: sunlight, UV light lamp. If no light source is readily available, use a trowel or shovel to gather the material into a container, transport to a UV light source and polymerize. Polymerized material can be disposed of in accordance with local, state and federal regulations.

### SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use. Protect containers from abuse. Do not expose containers to UV light (including sunlight), peroxides or other free-radical reaction initiators. Do not expose material to temperatures in excess of 60 °C. Do not expose to open flame. This material will support combustion. Keep this material and all chemicals out of the reach of children. Avoid prolonged contact with skin, mucous membranes, eyes, open wounds,

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| HAZARDOUS COMPONENTS:            | NIOSH   |                       |          |                        | ACGIH   |                       |          |                        |
|----------------------------------|---------|-----------------------|----------|------------------------|---------|-----------------------|----------|------------------------|
|                                  | TWA ppm | TWA mg/m <sup>3</sup> | STEL ppm | STEL mg/m <sup>3</sup> | TWA ppm | TWA mg/m <sup>3</sup> | STEL ppm | STEL mg/m <sup>3</sup> |
| Polyurethane acrylate prepolymer | n/a     | n/a                   | n/a      | n/a                    | n/a     | n/a                   | n/a      | n/a                    |
| tripropylene glycol diacrylate   | n/a     | n/a                   | n/a      | n/a                    | n/a     | n/a                   | n/a      | n/a                    |
| 1-hydroxycyclohexylphenylketone  | n/a     | n/a                   | n/a      | n/a                    | n/a     | n/a                   | n/a      | n/a                    |
| benzophenone                     | n/a     | n/a                   | n/a      | n/a                    | n/a     | n/a                   | n/a      | n/a                    |

#### PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 28 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Nitrile, neoprene, or latex. For large quantities, long neoprene glove are required with cuffs.

EYE PROTECTION: Safety glasses or splash goggles. For large exposure situations, a full-face splash shield is required.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station.

WORK / HYGIENIC PRACTICES: Always practice safe workplace habits. Minimize body contact with this as well as all chemicals in general.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                                                  |                                                |
|--------------------------------------------------|------------------------------------------------|
| APPEARANCE AND ODOR<br>Clear or pigmented liquid | VAPOR PRESSURE<br>not applicable               |
| pH<br>not applicable                             | SPECIFIC GRAVITY (WATER = 1)<br>1.1            |
| BOILING POINT / BOILING RANGE<br>not applicable  | SOLUBILITY IN WATER<br>not soluble             |
| FLASH POINT<br>>212 F / 100 C                    | VISCOSITY<br>30,000 cps                        |
| FLAMMABLE LIMITS<br>not applicable               | VAPOR DENSITY (AIR = 1)<br><1                  |
| AUTOIGNITION TEMPERATURE<br>not applicable       | EVAPORATION RATE (WATER = 1)<br>not applicable |

## SECTION 10 - STABILITY AND REACTIVITY

|                                                                                                                                                                                                           |                |                |                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------------------------------------------------------------------------------------|
| STABILITY                                                                                                                                                                                                 | STABLE<br>X    | UNSTABLE       | CONDITIONS TO AVOID: Temperatures over 60 °C, open flame, UV light (including sunlight) |
| INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, peroxides, UV light sources, sunlight, temperatures over 60 °C and loss of inhibitor.                                                             |                |                |                                                                                         |
| HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon, oxides of nitrogen, hydrocarbons, fumes and smoke may be produced. |                |                |                                                                                         |
| HAZARDOUS POLYMERIZATION                                                                                                                                                                                  | MAY OCCUR<br>X | WILL NOT OCCUR | CONDITIONS TO AVOID: Temperatures over 60 oC, open flame, UV light (including sunlight) |

## SECTION 11 - TOXICOLOGICAL INFORMATION

| HAZARDOUS COMPONENTS                  | CAS #<br>EINECS #       | LD50 of Ingredient<br>(Specify Species and Route) | LC50 of Ingredient<br>(Specify Species) |
|---------------------------------------|-------------------------|---------------------------------------------------|-----------------------------------------|
| Polyurthane acrylate prepolymer resin | N/A<br>N/A              | >2000<br>skin/rat                                 | n/a                                     |
| triproplyeneglycol diacrylate         | 42978-66-5<br>256-032-2 | >2000<br>skin/rat                                 | n/a                                     |
| 1-hydroxycyclohexylphenylketone       | 947-19-3<br>213-426-9   | >2000<br>skin/rat                                 | n/a                                     |
| benzophenone                          | 119-61-9<br>204-337-6   | >2000<br>skin/rat                                 | n/a                                     |

## SECTION 12 - ECOLOGICAL INFORMATION

|                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Biologic Degredation: Biodegradation: n.a</p> <p>Behavior in environmental compartments: Distribution: log p(o/w): n.a. no bioaccumulation to be expected</p> <p>Ecotoxic effects:</p> <p>Biological effects:</p> <p>Fish toxicity: L. macrochirus LC50: n.a</p> <p>Daphnia toxicity: Daphnia magna EC50:n.a.</p> | <p>Maximum permissible toxic concentrations:</p> <p>Algal toxicity: Sc. Quadricauda IC5: n.a.</p> <p>Bacterial toxicity: M. aeruginosa EC5: n.a.</p> <p>Protozoa: E. sulcatum EC5: n.a.</p> <p>Further ecological data:</p> <p>Degradability:</p> <p>BOD5: n.a.</p> <p>COD: n.a.</p> <p>TOD: n.a.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 13 - DISPOSAL CONSIDERATIONS

Product: Chemicals must be disposed of in compliance with federal, state and local regulations.  
 Container: Container must be disposed of in accordance with federal, state and local regulations.  
 All liquid material should be exposed to UV light or any other free-radical reaction initiator

## SECTION 14 - TRANSPORT INFORMATION

|                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PROPER SHIPPING NAME: Polyurethane prepolymer resin</p> <p>DOT HAZARD CLASS / Packing Group: Not Regulated</p> <p>REFERENCE: Not Applicable</p> <p>UN/NA ID NUMBER: None</p> <p>LABEL: None</p> <p>HAZARD SYMBOLS: None</p> | <p>IATA CLASS / Packing Group: Not Regulated</p> <p>IMDG HAZARD CLASS: Not Regulated</p> <p>RID / ADR Dangerous Goods Code: Not Regulated</p> <p>UN TDG Class/ Pack Group: Not Regulated</p> <p>Hazard Identification Number (HIN): Not Regulated</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

All information contained herein is accurate to the best of the knowledge at McConnell Labs, Inc.

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100-177, IMDG, IATA, EU, United Nations TDG and WHIMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

## SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

SARA TITLE III (USA - Superfund Amedments and Reauthorization Act)

311 / 312 Hazard Catagories: None

313 Reporatable Ingredients: None

CERCLA (USA - Comprehensive Response and Liability Act) : None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There is nothing known to the State of California to cause cancer or reproductive toxicity.

CFR (Canadian Cntrrolled Products Regulations):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS conains information required by the Controlled Products Regulations. WHIMIS Classification: None

IDL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)


Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Index: 1

VbK Index: AIII

|                                                                 |                                                                                                                                        |                                                                                                                                                                                                      |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>RISK PHRASES:</p> <p>R-36/38 Irritating to eyes and skin</p> | <p>SYMBOL(S) REQUIRED FOR LABEL</p> <p>IRRITANT</p>  | <p>SAFETY PHRASES:</p> <p>S-24/25 Avoid contact with skin and eyes.</p> <p>S-26 In case of contact with eyes, rinse immediately</p> <p>S-41 In case of fire and/or explosion, donot breath fumes</p> |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

EU DIRECTIVES: DIRECTIVE 91/155/EEC amended by Drirective 93/112/EEC and Directive 2001/58/EC : Safety Data Sheets  
 Dangerous preparations: Directive 1999/45/EC amended by Directive 2001/60/EC - OJEC L226 - 22/08/2001 and Directive 2006/08/EC - 24/01/2006.

Commission Directive 2004/73/EC of 29 April 2004 adapting to technical progress for the 29th time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (Official Journal L216 - 16/06/2004).

## SECTION 16 - OTHER INFORMATION

EXPLANATIONS TO R-PHRASES IN SECTION 2:

|         |                                          |
|---------|------------------------------------------|
| R-36/38 | Irritating to eyes and skin.             |
| R-24    | Toxic in contact with skin.              |
| R-43    | May cause sensitization by skin contact. |