



# MATERIAL SAFETY DATA SHEET

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## SECTION I - IDENTIFICATION

**PRODUCT:** VF-100  
**MANUFACTURER:** VIBRA FINISH CO. VIBRA FINISH CO.  
**ADDRESS:** 2220 N. Shasta Way 8411 Seward Road  
 Simi Valley, CA 93065 Hamilton, OH 45011  
**TELEPHONE:** (800) 635-0259 (800) 253-1941

**DESCRIPTION:** Cleaner  
**CHEMICAL FAMILY:** Glycol ether  
**FORMULA:** Proprietary mixture  
**EMERGENCY TELEPHONE NUMBER:** CHEMTREC (800) 424-9300 or (800) 635-0259  
**NFPA RATING:** Health: 1 Fire: 1 Reactivity: 0  
 NFPA Hazard Rating: Extreme: 4 High: 3 Moderate: 2 Slight: 1 Insignificant: 0  
**MSDS ORINATION DATE:** 3/5/2003 **REVISION DATE:** 1/26/2009

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## SECTION II - HAZARDOUS INGREDIENTS/MIXTURES

MATERIAL or COMPONENT	CAS No.	PERCENT	TLV/ACGIH
Ethylene glycol monobutyl ether	111-76-2	< 10	25 ppm (skin)

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## SECTION III - PHYSICAL DATA

**BOILING POINT:**..... >212°F  
**MELTING POINT:** .....ND  
**VAPOR PRESSURE (mm Hg):**.....ND  
**VAPOR DENSITY (Air = 1):**.....ND  
**PERCENT VOLATILE BY VOLUME:**.....ND  
**AUTOIGNITION TEMPERATURE:**.....ND  
**FORM**..... Liquid  
**SOLUBILITY IN WATER:**..... Complete  
**SPECIFIC GRAVITY (WATER=1)** ..... 1.05  
**APPEARANCE:**..... Transparent, light yellow  
**ODOR:**.....Mild butyl cellosolve  
**pH (neat)** ..... 8.8 - 9.5

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## SECTION IV - FIRE AND EXPLOSION DATA

**FLASH POINT (TEST METHOD):** 160°F (PMCC)

**EXTINGUISHING MEDIA:** Typical fire fighting media, such as water spray, dry chemical, foam, and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: When this product is involved in a fire, firefighters should wear protective clothing and self-contained breathing apparatus to avoid exposure to vapors or products of combustion.

UNUSUAL FIRE AND EXPLOSION HAZARD: Sealed drums can develop explosive pressures under fire conditions. Use a water spray to keep cool.

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## SECTION V - HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE:

SKIN: May cause skin irritation and reddening. Harmful if absorbed through the skin.

EYES: Contact may cause irritation, tearing, and redness.

INGESTION: May cause irritation to the mouth, esophagus, and stomach, followed by nausea, vomiting, and diarrhea.

INHALATION: Avoid mists. Mists may cause headaches, dizziness, and respiratory tract irritation. High exposures may cause narcotic effects and lung damage.

### EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Flush with plenty of water for 15 minutes. Remove contaminated clothing. See a physician if irritation persists.

EYES: Flush the eyes with plenty of water for 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth and drink 2 or 3 glasses of water. Call a physician. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

INHALATION: Move the victim to fresh air. Give artificial respiration if not breathing.

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## SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures, fires, and incompatibles.

INCOMPATIBILITY: Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures and fires may produce toxic carbon monoxide, carbon dioxide, and oxides of phosphorous, nitrogen, and sodium.

HAZARDOUS POLYMERIZATION: Will not occur.

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## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear chemically protective clothing. Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Keep product out of sewers, watersheds, and water systems.

WASTE DISPOSAL METHOD: Material that cannot be recovered and reused should be disposed of in accordance with all Federal, State, and Local regulations.

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## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Avoid breathing vapors or mists. Use a NIOSH/MSHA approved respirator, with a full-facepiece when concentrations are unknown.

VENTILATION: Provide adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment.

PROTECTIVE GLOVES: The wearing of rubber or neoprene gloves is recommended.

EYE PROTECTION: Wear chemical splash goggles and/or full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.

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## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Containers should be stored in a cool, dry, well-ventilated area. Exercise due caution to prevent damage to or leakage from the container. Avoid contact with ignition sources and strong oxidizing agents. Keep containers closed when not in use.

OTHER PRECAUTIONS: Use good industrial practices in the storage, handling, and distribution of this product.

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## SECTION X – REGULATORY INFORMATION

This product is not considered a carcinogen or cancer suspect under NTP, IARC, and OSHA.

SARA Title III Section 313 (Toxic Chemicals): Ethylene oxide (CAS 75-21-8)

SARA Title III Section 302 (Extremely Hazardous Substances): Ethylene oxide (CAS 75-21-8)

SUPERFUND REPORTABLE QUANTITY CHEMICAL: Ethylene oxide (CAS 75-21-8) (RQ = 10 lb)

CAL-OSHA DIRECTOR'S LIST OF HAZARDOUS SUBSTANCES: Ethylene oxide (CAS 75-21-8); Ethylene glycol monobutyl ether (CAS 111-76-2)

PROPOSITION 65 (Chemicals known to the state of California to cause cancer or reproductive toxicity): This product may contain a trace of Ethylene oxide (CAS 75-21-8).

U.S. DOT PROPER SHIPPING NAME: Not regulated.

LABEL: NA

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NA: not applicable      ND: not determined

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# MATERIAL SAFETY DATA SHEET

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## SECTION I - IDENTIFICATION

**PRODUCT:** VF-103  
**MANUFACTURER:** VIBRA FINISH CO. VIBRA FINISH CO.  
**ADDRESS:** 2220 N. Shasta Way 8411 Seward Road  
 Simi Valley, CA 93065 Hamilton, OH 45011  
**TELEPHONE:** (800) 635-0259 (800) 253-1941

**DESCRIPTION:** Burnishing compound  
**CHEMICAL FAMILY:** Mixture  
**FORMULA:** Proprietary mixture  
**EMERGENCY TELEPHONE NUMBER:** CHEMTREC (800) 424-9300 or (800) 635-0259  
**NFPA RATING:** Health: 1 Fire: 0 Reactivity: 0  
 NFPA Hazard Rating: Extreme: 4 High: 3 Moderate: 2 Slight: 1 Insignificant: 0  
**MSDS ORINATION DATE:** 3/5/2003 **REVISION DATE:** 1/26/2009

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## SECTION II - HAZARDOUS INGREDIENTS/MIXTURES

<u>MATERIAL or COMPONENT</u>	<u>CAS No.</u>	<u>PERCENT</u>	<u>TLV/ACGIH</u>
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All components of this product are considered non-hazardous under 29 CFR 1910.1200

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## SECTION III - PHYSICAL DATA

BOILING POINT:..... > 212°F  
 MELTING POINT: .....ND  
 VAPOR PRESSURE (mm Hg):.....ND  
 VAPOR DENSITY (Air = 1):.....ND  
 PERCENT VOLATILE BY VOLUME:.....ND  
 AUTOIGNITION TEMPERATURE:.....ND  
 EVAPORATION RATE (BuOAc = 1): .....ND  
 FORM..... Liquid  
 SOLUBILITY IN WATER:..... Complete  
 SPECIFIC GRAVITY (WATER=1) .....1.033  
 APPEARANCE:..... Clear, light straw yellow  
 ODOR:..... Mild  
 pH (neat) .....9.36

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## SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): >212°F (Setaflash closed)

EXTINGUISHING MEDIA: Use standard fire fighting media, including water, foam, dry chemical, and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: When this product is involved in a fire, firefighters should wear protective clothing and self-contained breathing apparatus to avoid exposure to vapors or products of combustion.

UNUSUAL FIRE AND EXPLOSION HAZARD: Sealed drums can also develop explosive pressures under fire conditions. Use a water spray to cool.

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## SECTION V - HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE:

SKIN: Prolonged contact may be irritating and can cause reddening and irritation of the skin.

EYES: Irritating to the eyes resulting in tearing, reddening, and possibly chemical burns.

INGESTION: If accidentally ingested, can cause irritation of the mucous membranes in the mouth, throat, esophagus, and stomach.

INHALATION: Airborne concentrations of mist or spray may cause irritation to the upper respiratory tract and lungs.

### EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Immediately flush the area with soap and flowing water for at least 15 minutes. Remove contaminated clothing and launder before reuse.

EYES: Flush the eyes with plenty of water for 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth and drink several glasses of water. Get immediate medical attention. Only induce vomiting under the advice of a physician. Do not give anything by mouth to an unconscious person.

INHALATION: Move the victim to fresh air. Give artificial respiration if breathing has stopped. Get immediate medical attention.

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## SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures, flames, and incompatibles.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents and alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures and flames may produce toxic carbon monoxide, carbon dioxide, and oxides of nitrogen

HAZARDOUS POLYMERIZATION: Will not occur.

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## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear chemically protective clothing. Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Keep product out of sewers, watersheds, and water systems.

WASTE DISPOSAL METHOD: Material that cannot be recovered and reused should be disposed of in accordance with all Federal, State, and Local regulations.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (Specify type): Not normally needed. Avoid breathing vapors or mists. Use a NIOSH/MSHA approved respirator with a full-facepiece when concentrations are unknown.

VENTILATION: Provide adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment.

PROTECTIVE GLOVES: The wearing of rubber or neoprene gloves is recommended.

EYE PROTECTION: Wear chemical splash goggles and/or full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.

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**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Containers should be stored in a cool, dry, well-ventilated area. Keep from freezing. Exercise due caution to prevent damage to or leakage from the container. Avoid contact with ignition sources, bases, and strong oxidizing agents. Keep containers closed when not in use. Flush empty containers with water.

OTHER PRECAUTIONS: Use good industrial practices in the storage, handling, and distribution of this product.

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**SECTION X – REGULATORY INFORMATION**

This product is not considered a carcinogen or cancer suspect under NTP, IARC and OSHA.

SARA Title III Section 313 (Toxic Chemicals): None listed.

SARA Title III Section 302 (Extremely Hazardous Substances): None listed

U.S. DOT PROPER SHIPPING NAME: Not regulated.

LABEL: NA

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NA: not applicable            ND: not determined

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# MATERIAL SAFETY DATA SHEET

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## SECTION I - IDENTIFICATION

**PRODUCT:** VF-150  
**MANUFACTURER:** VIBRA FINISH CO. VIBRA FINISH CO.  
**ADDRESS:** 2220 N. Shasta Way 8411 Seward Road  
 Simi Valley, CA 93065 Hamilton, OH 45011  
**TELEPHONE:** (800) 635-0259 (800) 253-1941

**DESCRIPTION:** Burnishing compound  
**CHEMICAL FAMILY:** Mixture  
**FORMULA:** Proprietary mixture  
**EMERGENCY TELEPHONE NUMBER:** CHEMTREC (800) 424-9300 or (800) 635-0259  
**NFPA RATING:** Health: 1 Fire: 0 Reactivity: 0  
 NFPA Hazard Rating: Extreme: 4 High: 3 Moderate: 2 Slight: 1 Insignificant: 0  
**MSDS ORINATION DATE:** 3/4/2003 **REVISION DATE:** 1/26/2009

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## SECTION II - HAZARDOUS INGREDIENTS/MIXTURES

<u>MATERIAL or COMPONENT</u>	<u>CAS No.</u>	<u>PERCENT</u>	<u>TLV/ACGIH</u>
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All components of this product are considered non-hazardous under 29 CFR 1910.1200

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## SECTION III - PHYSICAL DATA

BOILING POINT:..... > 212°F  
 MELTING POINT: .....ND  
 VAPOR PRESSURE (mm Hg):.....ND  
 VAPOR DENSITY (Air = 1):.....ND  
 PERCENT VOLATILE BY VOLUME:.....ND  
 AUTOIGNITION TEMPERATURE:.....ND  
 EVAPORATION RATE (BuOAc = 1): .....ND  
 FORM..... Liquid  
 SOLUBILITY IN WATER:..... Complete  
 SPECIFIC GRAVITY (WATER=1) .....1.07  
 APPEARANCE:..... Clear, light straw yellow  
 ODOR:..... Mild  
 pH (neat) .....3.8 – 4.3

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## SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): >200°F (Setaflash closed)

EXTINGUISHING MEDIA: Use standard fire fighting media, including water, foam, dry chemical, and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: When this product is involved in a fire, firefighters should wear protective clothing and self-contained breathing apparatus to avoid exposure to vapors or products of combustion.

UNUSUAL FIRE AND EXPLOSION HAZARD: Sealed drums can also develop explosive pressures under fire conditions. Use a water spray to cool.

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## SECTION V - HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE:

SKIN: Prolonged contact may be irritating and can cause reddening and irritation of the skin.

EYES: Irritating to the eyes resulting in tearing, reddening, and possibly chemical burns.

INGESTION: If accidentally ingested, can cause irritation of the mucous membranes in the mouth, throat, esophagus, and stomach.

INHALATION: Airborne concentrations of mist or spray may cause irritation to the upper respiratory tract and lungs.

### EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Immediately flush the area with soap and flowing water for at least 15 minutes. Remove contaminated clothing and launder before reuse.

EYES: Flush the eyes with plenty of water for 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth and drink several glasses of water. Get immediate medical attention. Only induce vomiting under the advice of a physician. Do not give anything by mouth to an unconscious person.

INHALATION: Move the victim to fresh air. Give artificial respiration if breathing has stopped. Get immediate medical attention.

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## SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures, flames, and incompatibles.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents and alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures and flames may produce toxic carbon monoxide, carbon dioxide, and oxides of nitrogen

HAZARDOUS POLYMERIZATION: Will not occur.

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## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear chemically protective clothing. Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Keep product out of sewers, watersheds, and water systems.

WASTE DISPOSAL METHOD: Material that cannot be recovered and reused should be disposed of in accordance with all Federal, State, and Local regulations.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (Specify type): Not normally needed. Avoid breathing vapors or mists. Use a NIOSH/MSHA approved respirator with a full-facepiece when concentrations are unknown.

VENTILATION: Provide adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment.

PROTECTIVE GLOVES: The wearing of rubber or neoprene gloves is recommended.

EYE PROTECTION: Wear chemical splash goggles and/or full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.

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**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Containers should be stored in a cool, dry, well-ventilated area. Keep from freezing. Exercise due caution to prevent damage to or leakage from the container. Avoid contact with ignition sources, bases, and strong oxidizing agents. Keep containers closed when not in use. Flush empty containers with water.

OTHER PRECAUTIONS: Use good industrial practices in the storage, handling, and distribution of this product.

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**SECTION X – REGULATORY INFORMATION**

This product is not considered a carcinogen or cancer suspect under NTP, IARC and OSHA.

SARA Title III Section 313 (Toxic Chemicals): None listed.

SARA Title III Section 302 (Extremely Hazardous Substances): None listed

U.S. DOT PROPER SHIPPING NAME: Not regulated.

LABEL: NA

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NA: not applicable            ND: not determined

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# MATERIAL SAFETY DATA SHEET

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## SECTION I - IDENTIFICATION

**PRODUCT:** VF-220  
**MANUFACTURER:** VIBRA FINISH CO. VIBRA FINISH CO.  
**ADDRESS:** 2220 N. Shasta Way 8411 Seward Road  
 Simi Valley, CA 93065 Hamilton, OH 45011  
**TELEPHONE:** (800) 635-0259 (800) 253-1941

**DESCRIPTION:** Burnishing Compound  
**CHEMICAL FAMILY:** NA  
**FORMULA:** Proprietary mixture  
**EMERGENCY TELEPHONE NUMBER:** CHEMTREC (800) 424-9300 or (800) 635-0259  
**NFPA RATING:** Health: 1 Fire: 1 Reactivity: 0  
 NFPA Hazard Rating: Extreme: 4 High: 3 Moderate: 2 Slight: 1 Insignificant: 0  
**MSDS ORINATION DATE:** 10/23/2002 **REVISION DATE:** 12/04/2008

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## SECTION II - HAZARDOUS INGREDIENTS/MIXTURES

<u>MATERIAL or COMPONENT</u>	<u>CAS No.</u>	<u>PERCENT</u>	<u>TLV/ACGIH</u>
Sodium dodecyl benzene sulfonic acid	25155-30-0	< 5	10 mg/m <sup>3</sup>

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## SECTION III - PHYSICAL DATA

**BOILING POINT:**.....ND  
**MELTING POINT:** .....ND  
**VAPOR PRESSURE (mm Hg):**.....NA  
**VAPOR DENSITY (Air = 1):**.....NA  
**PERCENT VOLATILE BY VOLUME:**.....NA  
**AUTOIGNITION TEMPERATURE:**.....NA  
**FORM**.....Solid  
**SOLUBILITY IN WATER:**.....Completely  
**BULK DENSITY (g/mL)**..... 0.7 – 0.8  
**APPEARANCE:**.....Off-white free flowing powder  
**ODOR:**.....Odorless

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## SECTION IV - FIRE AND EXPLOSION DATA

**FLASH POINT (TEST METHOD):** NA

**EXTINGUISHING MEDIA:** Product will smolder and slowly burn if ignited. Use standard fire fighting media, including foam, carbon dioxide, water spray, or dry chemical extinguishers.

**SPECIAL FIRE FIGHTING PROCEDURES:** When this product is involved in a fire, firefighters should wear protective clothing and self-contained breathing apparatus to avoid exposure to vapors or products of combustion.

UNUSUAL FIRE AND EXPLOSION HAZARD: Closed containers may develop explosive pressures under fire conditions. Use a water spray to cool.

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### SECTION V - HEALTH HAZARD INFORMATION

#### EFFECTS OF OVEREXPOSURE:

SKIN: Prolonged contact with the skin may be irritating.

EYES: Contact with the dust can be irritating to the eyes.

INGESTION: This product is an irritant to the gastrointestinal system and may cause nausea and vomiting.

INHALATION: Breathing of dust may cause irritation to the upper respiratory tract and the lungs.

#### EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Flush the skin with flowing water and discontinue exposure. Remove contaminated clothing and launder before reuse.

EYES: Flush the eyes with plenty of water for 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth and drink several glasses of water. Induce vomiting and get medical attention. Never give anything by mouth to an unconscious person.

INHALATION: Remove victim to fresh air. If breathing is difficult, have a trained person administer oxygen. Get immediate medical attention.

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### SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures, fires, and incompatibles.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures and flames may form toxic oxides of carbon, boron and sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.

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### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate respirator, clothing and gloves. Small spill: sweep, scoop or vacuum spilled material into approved containers. Large spill: scooped into approved containers for reuse or disposal.

WASTE DISPOSAL METHOD: Dispose of waste in approved containers according to Federal, State, and Local regulations.

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### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): NIOSH/MSHA approved respirator where dust, mist, or spray may exist.

VENTILATION: Not required under normal use.

PROTECTIVE GLOVES: Natural or butyl rubber gloves are recommended for sensitive individuals or those experiencing long contact.

EYE PROTECTION: Wear chemical goggles or full-face shield.

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### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep in cool place away from strong oxidizing agents. Keep containers dry and sealed to avoid caking.

OTHER PRECAUTIONS: Because of dust formation, use grounded explosion proof equipment during bulk transfers. Solutions formed from this product can be very slippery. Use caution to avoid slipping hazard.

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### SECTION X – REGULATORY INFORMATION

This product is not considered carcinogen or cancer suspect under NTP, IARC and OSHA.

SARA Title III Section 313 (Toxic Chemicals): None listed.

SARA Title III Section 302 (Extremely Hazardous Substances): None listed

SUPERFUND REPORTABLE QUANTITY CHEMICAL: Sodium dodecylbenzene sulfonate (CAS# 25155-30-0) (RQ = 1,000 lb)

CAL-OSHA Directors List of Hazardous Materials: Sodium dodecylbenzene sulfonate (CAS# 25155-30-0)

SUPERFUND “REPORTABLE QUANTITY” CHEMICALS: Sodium dodecyl benzene sulfonic acid (CAS 25155-30-0)

SARA Title III Section 302 (Extremely Hazardous Substances): None listed.

U.S. DOT PROPER SHIPPING NAME: Not regulated.

LABEL: NA

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NA: not applicable            ND: not determined

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# MATERIAL SAFETY DATA SHEET

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## SECTION I - IDENTIFICATION

**PRODUCT:** VF-77T  
**MANUFACTURER:** VIBRA FINISH CO. VIBRA FINISH CO.  
**ADDRESS:** 2220 N. Shasta Way 8411 Seward Road  
 Simi Valley, CA 93065 Hamilton, OH 45011  
**TELEPHONE:** (800) 635-0259 (800) 253-1941

**DESCRIPTION:** Cleaner  
**CHEMICAL FAMILY:** Glycol ether  
**FORMULA:** Proprietary mixture  
**EMERGENCY TELEPHONE NUMBER:** CHEMTREC (800) 424-9300 or (800) 635-0259  
**NFPA RATING:** Health: 1 Fire: 1 Reactivity: 0  
 NFPA Hazard Rating: Extreme: 4 High: 3 Moderate: 2 Slight: 1 Insignificant: 0  
**MSDS ORINATION DATE:** 3/5/2003 **REVISION DATE:** 1/26/2009

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## SECTION II - HAZARDOUS INGREDIENTS/MIXTURES

MATERIAL or COMPONENT	CAS No.	PERCENT	TLV/ACGIH
Ethylene glycol monobutyl ether	111-76-2	< 5	25 ppm (skin)

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## SECTION III - PHYSICAL DATA

**BOILING POINT:**..... >212°F  
**MELTING POINT:** .....ND  
**VAPOR PRESSURE (mm Hg):**.....ND  
**VAPOR DENSITY (Air = 1):**.....ND  
**PERCENT VOLATILE BY VOLUME:**.....ND  
**AUTOIGNITION TEMPERATURE:**.....ND  
**FORM**..... Liquid  
**SOLUBILITY IN WATER:**..... Complete  
**SPECIFIC GRAVITY (WATER=1)** ..... 1.03  
**APPEARANCE:**..... Transparent, medium pink  
**ODOR:**.....Mild butyl cellosolve  
**pH (neat)** ..... 10 - 11

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## SECTION IV - FIRE AND EXPLOSION DATA

**FLASH POINT (TEST METHOD):** 160°F (PMCC)

**EXTINGUISHING MEDIA:** Typical fire fighting media, such as water spray, dry chemical, foam, and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: When this product is involved in a fire, firefighters should wear protective clothing and self-contained breathing apparatus to avoid exposure to vapors or products of combustion.

UNUSUAL FIRE AND EXPLOSION HAZARD: Sealed drums can develop explosive pressures under fire conditions. Use a water spray to keep cool.

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## SECTION V - HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE:

SKIN: May cause skin irritation and reddening. Harmful if absorbed through the skin.

EYES: Contact may cause irritation, tearing, and redness.

INGESTION: May cause irritation to the mouth, esophagus, and stomach, followed by nausea, vomiting, and diarrhea.

INHALATION: Avoid mists. Mists may cause headaches, dizziness, and respiratory tract irritation. High exposures may cause narcotic effects and lung damage.

### EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Flush with plenty of water for 15 minutes. Remove contaminated clothing. See a physician if irritation persists.

EYES: Flush the eyes with plenty of water for 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth and drink 2 or 3 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Call a physician.

INHALATION: Move the victim to fresh air. Give artificial respiration if not breathing.

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## SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures, fires, and incompatibles.

INCOMPATIBILITY: Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures and fires may produce toxic carbon monoxide, carbon dioxide, and oxides of phosphorous, nitrogen, and sodium.

HAZARDOUS POLYMERIZATION: Will not occur.

\*\*\*\*\*

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear chemically protective clothing. Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Keep product out of sewers, watersheds, and water systems.

WASTE DISPOSAL METHOD: Material that cannot be recovered and reused should be disposed of in accordance with all Federal, State, and Local regulations.

\*\*\*\*\*

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): Avoid breathing vapors or mists. Use a NIOSH/MSHA approved respirator, with a full-facepiece when concentrations are unknown.  
VENTILATION: Provide adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment.

PROTECTIVE GLOVES: The wearing of rubber or neoprene gloves is recommended.

EYE PROTECTION: Wear chemical splash goggles and/or full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.

\*\*\*\*\*

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Containers should be stored in a cool, dry, well-ventilated area. Exercise due caution to prevent damage to or leakage from the container. Avoid contact with ignition sources and strong oxidizing agents. Keep containers closed when not in use.

OTHER PRECAUTIONS: Use good industrial practices in the storage, handling, and distribution of this product.

\*\*\*\*\*

**SECTION X – REGULATORY INFORMATION**

This product is not considered a carcinogen or cancer suspect under NTP, IARC, and OSHA.

SARA Title III Section 313 (Toxic Chemicals): Ethylene oxide (CAS 75-21-8)

SARA Title III Section 302 (Extremely Hazardous Substances): Ethylene oxide (CAS 75-21-8)

SUPERFUND REPORTABLE QUANTITY CHEMICAL: Ethylene oxide (CAS 75-21-8) (RQ = 10 lb)

CAL-OSHA DIRECTOR'S LIST OF HAZARDOUS SUBSTANCES: Ethylene oxide (CAS 75-21-8);  
Ethylene glycol monobutyl ether (CAS 111-76-2)

PROPOSITION 65 (Chemicals known to the state of California to cause cancer or reproductive toxicity):  
This product contains 0.015% Phenolphthalein (CAS 77-09-8) and traces of Ethylene oxide (CAS 75-21-8) and trisodium nitrilotriacetate (CAS 5064-31-3).

U.S. DOT PROPER SHIPPING NAME: Not regulated.

LABEL: NA

\*\*\*\*\*

NA: not applicable            ND: not determined

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# MATERIAL SAFETY DATA SHEET

**VF-77TNC**

Page 1 of 2  
Revision Date: 07/13/07  
Supersedes: 09/04/00

## **1. PRODUCT NAME AND COMPANY IDENTIFICATION**

**Product Name:** VF-77TNC LIQUID COMPOUND, **Chemical Name:** Proprietary Blend, **Chemical Family:** Mixture, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
2-Butoxyethanol	111-76-2	<10
Nonionic surfactant	9016-45-9	<10
Monoethanolamine	141-43-5	<5

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

## **3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Irritant. May irritate eyes and skin. Harmful if swallowed.

**Routes of Exposure:** Contact, ingestion. **Target Organ Effects:** **Eyes:** Causes irritation. **Skin:** May cause irritation. **Ingestion:** May cause irritation of the gastro intestinal tract. Nausea, diarrhea. **Inhalation:** Inhalation of mist may irritate the respiratory tract. **Carcinogenicity:** Not a carcinogen.

## **4. FIRST AID MEASURES**

**Eyes:** Flush with clean cool water for 15 minutes. See a physician. **Skin:** Wash with soap and water. See a physician if irritation occurs. Remove and wash contaminated clothing. **Ingestion:** Drink plenty of milk. Do not induce vomiting. Seek medical attention. **Inhalation:** Remove to fresh air.

## **5. FIRE FIGHTING MEASURES**

**Flammable Properties:** Water solution. Combustion may occur on water evaporation. **Hazardous Combustion Products:** Oxides of carbon and nitrogen. **General Hazards:** Closed containers may burst when exposed to extreme heat due to build-up of steam pressure. **Extinguishing Media:** Appropriate to primary source of fire. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. Use water to cool containers. **Other Information:** Flash Point: Not applicable, Auto Ignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

## **6. ACCIDENTAL RELEASE (SPILL MEASURES)**

**Spills:** Large Spills: Dam area to prevent spill from spreading. Can be neutralized with acid. Collect for disposal. Small Spills: Flush liquid to sewer with copious amounts of water.

## **7. HANDLING AND STORAGE**

**Handling:** Impermeable gloves and eye protection is recommended. Body protective clothing and shoes recommended if splashing is likely. **Storage:** Keep container closed. Keep from freezing.



**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Neoprene or natural rubber gloves. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if mist is generated, **Other Protective Equipment:** As required to minimize skin contact. Eye wash, safety shower, **Exposure Guidelines:** 2-Butoxyethanol: TWA (skin) 25ppm, Monoethanolamine: TLV 3ppm.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Boiling Point:** >200°F, **Appearance and Odor:** Clear, pale yellow liquid, characteristic odor, **Specific Gravity:** 1.03, **Solubility in H<sup>2</sup>O:** Complete, **pH (as is):** 10.1

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Contact with strong acids and oxidizers **Hazardous Decomposition Products:** By fire: oxides of carbon and nitrogen. **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established, however, all ingredients are of low toxicity.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local state and federal regulations. Container disposal, offer for recycling or triple rinse and dispose of in an approved landfill.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory.  
2-Butoxyethanol is subject to the reporting requirements of SARA Title III, Section 313.

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 0

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-DF CERAMIC MEDIA

Page 1 of 2  
Revision Date: 02/23/06  
Supersedes: 05/14/01

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-DF CERAMIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Ceramic, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture  
**Manufactured by:** Vibra Finish Company 8491 Seward Road Hamilton, OH 45011  
**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
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This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 29 CFR 29 1910.1200

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects:** **Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Not a carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material will not burn and poses no explosion hazard.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne, it would be considered a nuisance dust, TLV 10mg/m<sup>3</sup>.

## **9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Dark brown odorless solid of varied size and shape, Bulk Density (Lbs./Cu.Ft.): 110-115, Solubility in H<sub>2</sub>O: Negligible.

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** Not applicable, **Hazardous Polymerization:** Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

## **12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

## **13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

## **14. TRANSPORTATION INFORMATION**

DOT Description: Not Regulated

## **15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory.

## **16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 0

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 0

Flammability - 0

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-LC CERAMIC MEDIA

Page 1 of 2

Revision Date: 02/23/06

Supersedes: 05/14/01

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-LC CERAMIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Ceramic, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8491 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS#

% by Wt.

This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 20 CFR 29 1910.1200.

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects:** **Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Not a carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material will not burn and poses no explosion hazard.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne, it would be considered a nuisance dust, TLV 10mg/m3.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Gray odorless solid of varied size and shape, Bulk Density (Lbs./Cu.Ft.): 85-90, Solubility in H2O: Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** Not applicable, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 0

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 0

Flammability - 0

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-M CERAMIC MEDIA

Page 1 of 2

Revision Date: 12/01/08

Supersedes: 01/07/08

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-M CERAMIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Ceramic, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS#

% by Wt.

This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 20 CFR 29 1910.1200.

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Not a carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material will not burn and poses no explosion hazard.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne, it would be considered a nuisance dust, TLV 10mg/m<sup>3</sup>.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Grey odorless solid of varied size and shape, **Bulk Density (Lbs./Cu.Ft.):** 85-90, **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** Not applicable, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 0

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 0

Flammability - 0

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-P CERAMIC MEDIA

Page 1 of 2

Revision Date: 03/26/07

Supersedes: 02/23/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-P CERAMIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Ceramic, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS#

% by Wt.

This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 20 CFR 29 1910.1200.

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Not a carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material will not burn and poses no explosion hazard.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.



## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne, it would be considered a nuisance dust, TLV 10mg/m<sup>3</sup>.

## **9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** White odorless solid of varied size and shape, **Bulk Density** (Lbs./Cu.Ft.): 85-90, **Solubility in H<sub>2</sub>O:** Negligible.

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** Not applicable, **Hazardous Polymerization:** Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

## **12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

## **13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

## **14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

## **15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

## **16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 0

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 0

Flammability - 0

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-RG PLASTIC MEDIA

Page 1 of 2

Revision Date: 06/20/07

Supersedes: 02/27/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-RG PLASTIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	> 30

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing and/or coughing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.1mg/m<sup>3</sup> (respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Gray solid of varied size and shape, slight characteristic odor **Bulk Density (Lbs./Cu.Ft.):** 70-75 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-RGT PLASTIC MEDIA

Page 1 of 2

Revision Date: 05/08/07

Supersedes: 02/27/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-RGT PLASTIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	> 30

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing and/or coughing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.1mg/m<sup>3</sup> (respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Light yellow solid of varied size and shape, slight characteristic odor **Bulk Density** (Lbs./Cu.Ft.): 65-70 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

VIBRA FINISH COMPANY cannot anticipate all conditions under which this information and our products, or products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by application of this information, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such products or product combination for their own purposes. Unless otherwise agreed in writing, buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.



# MATERIAL SAFETY DATA SHEET

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## SECTION I - IDENTIFICATION

**PRODUCT:** VF-RI 8B  
**MANUFACTURER:** VIBRA FINISH CO. VIBRA FINISH CO.  
**ADDRESS:** 2220 N. Shasta Way 8411 Seward Road  
 Simi Valley, CA 93065 Hamilton, OH 45011  
**TELEPHONE:** (800) 635-0259 (800) 253-1941

**DESCRIPTION:** Corrosion inhibitor  
**CHEMICAL FAMILY:** NA  
**FORMULA:** Proprietary mixture  
**EMERGENCY TELEPHONE NUMBER:** CHEMTREC (800) 424-9300 or (800) 635-0259  
**NFPA RATING:** Health: 1 Fire: 0 Reactivity: 0  
 NFPA Hazard Rating: Extreme: 4 High: 3 Moderate: 2 Slight: 1 Insignificant: 0  
**MSDS ORINATION DATE:** 3/7/2003 **REVISION DATE:** 1/26/2009

\*\*\*\*\*

## SECTION II - HAZARDOUS INGREDIENTS/MIXTURES

<u>MATERIAL or COMPONENT</u>	<u>CAS No.</u>	<u>PERCENT</u>	<u>TLV/ACGIH</u>
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All components of this product are considered non-hazardous under 29 CFR 1910.1200.

\*\*\*\*\*

## SECTION III - PHYSICAL DATA

BOILING POINT:..... > 212°F  
 MELTING POINT:..... < 32°F  
 VAPOR PRESSURE (mm Hg):.....ND  
 VAPOR DENSITY (Air = 1):.....ND  
 PERCENT VOLATILE BY VOLUME:.....ND  
 AUTOIGNITION TEMPERATURE:.....ND  
 FORM..... Liquid  
 SOLUBILITY IN WATER:..... Soluble  
 SPECIFIC GRAVITY (WATER=1)..... 1.04  
 APPEARANCE:..... Transparent, light yellow  
 ODOR:..... Mild  
 pH (neat)..... 8.5

\*\*\*\*\*

## SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): > 212°F (PMCC)

EXTINGUISHING MEDIA: Standard fire fighting media, including water fog, foam, dry chemical, and carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: When this product is involved in a fire, firefighters should wear protective clothing and self-contained breathing apparatus to avoid exposure to vapors or products of combustion.

UNUSUAL FIRE AND EXPLOSION HAZARD: Sealed drums can develop explosive pressures under fire conditions. Use a water spray to cool.

\*\*\*\*\*

## SECTION V - HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE:

SKIN: Mildly irritating and can cause reddening and defatting of the skin.

EYES: Mildly irritating to the eyes resulting in irritation, reddening, and tearing.

INGESTION: Can cause irritation of the mucous membranes in the mouth, throat, esophagus, and stomach, abdominal discomfort, nausea and diarrhea and drowsiness.

INHALATION: Airborne concentrations of mist or spray may cause irritation to the upper respiratory tract and lungs, drowsiness, and nausea.

### EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Immediately flush the area with flowing water for at least 15 minutes. Remove contaminated clothing and launder before reuse. Wash the exposed area with a nonabrasive soap and plenty of water.

EYES: Flush the eyes with plenty of water for 15 minutes, alternately lifting the upper and lower eyelids. After 5 minutes, if appropriate, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth with water and drink several glasses of water to induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION: Move the victim to fresh air. Give artificial respiration if breathing has stopped. Get immediate medical attention.

\*\*\*\*\*

## SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures, flames, and incompatibles.

INCOMPATIBILITY: Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures and flames may produce toxic oxides of carbon, nitrogen and phosphorous.

HAZARDOUS POLYMERIZATION: Will not occur.

\*\*\*\*\*

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear chemically protective clothing. Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Keep product out of sewers, watersheds, and water systems.

WASTE DISPOSAL METHOD: Material that cannot be recovered and reused should be disposed of in accordance with all Federal, State, and Local regulations.

\*\*\*\*\*

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (Specify type): Avoid breathing vapors or mists. Use a NIOSH/MSHA approved respirator with a full-facepiece when concentrations are unknown.

VENTILATION: Provide adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment.

PROTECTIVE GLOVES: The wearing of rubber or neoprene gloves is recommended.

EYE PROTECTION: Wear chemical splash goggles and/or full-face shield where there is potential for eye contact. An eyewash fountain should be located in areas where the product is used.

\*\*\*\*\*

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Containers should be stored in a cool, dry, well-ventilated area. Exercise due caution to prevent damage to or leakage from the container. Avoid contact with ignition sources and strong oxidizing agents. Keep containers closed when not in use.

OTHER PRECAUTIONS: Use good industrial practices in the storage, handling, and distribution of this product.

\*\*\*\*\*

**SECTION X – REGULATORY INFORMATION**

This product is not considered a carcinogen or cancer suspect under NTP, IARC and OSHA.

SARA Title III Section 313 (Toxic Chemicals): None listed.

SARA Title III Section 302 (Extremely Hazardous Substances): None listed

PROPOSITION 65 (Chemicals known to the state of California to cause cancer or reproductive toxicity): This product may contain a trace of trisodium nitrilotriacetate (CAS 5064-31-3).

U.S. DOT PROPER SHIPPING NAME: Not regulated.

LABEL: NA

\*\*\*\*\*

NA: not applicable ND: not determined

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# MATERIAL SAFETY DATA SHEET

## VF-SC CERAMIC MEDIA

Page 1 of 2

Revision Date: 03/30/07

Supersedes: 02/23/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-SC CERAMIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Ceramic, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS#

% by Wt.

This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 20 CFR 29 1910.1200.

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects:** **Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Not a carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material will not burn and poses no explosion hazard.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne, it would be considered a nuisance dust, TLV 10mg/m<sup>3</sup>.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Light grey odorless solid of varied size and shape, **Bulk Density (Lbs./Cu.Ft.):** 85-90, **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** Not applicable, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 0

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 0

Flammability - 0

Reactivity - 0

VIBRA FINISH COMPANY cannot anticipate all conditions under which this information and our products, or products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by application of this information, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such products or product combination for their own purposes. Unless otherwise agreed in writing, buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

# MATERIAL SAFETY DATA SHEET

## VF-SJ SYNTHETIC MEDIA

Page 1 of 2

Revision Date: 03/30/07

Supersedes: 02/27/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-SJ SYNTHETIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	50-70

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing and/or coughing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.1mg/m<sup>3</sup> (respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Tangerine solid of varied size and shape, slight characteristic odor **Bulk Density** (Lbs./Cu.Ft.): 60-65 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon and nitrogen **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-SN SYNTHETIC MEDIA

Page 1 of 2

Revision Date: 03/26/07

Supersedes: 02/27/07

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-SN SYNTHETIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	30-40

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing and/or coughing. **Carcinogenicity:** Silica is a NIOSH occupational carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon and nitrogen. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.05mg/m<sup>3</sup>(respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Grey solid of varied size and shape, slight characteristic odor **Bulk Density (Lbs./Cu.Ft.):** 55-60 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon and nitrogen **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-SX SYNTHETIC MEDIA

Page 1 of 2

Revision Date: 03/26/07

Supersedes: 02/27/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-SX SYNTHETIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	50-70

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing and/or coughing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon and nitrogen. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.1mg/m<sup>3</sup> (respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Pink solid of varied size and shape, slight characteristic odor **Bulk Density (Lbs./Cu.Ft.):** 60-65 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon and nitrogen **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-SY SYNTHETIC MEDIA

Page 1 of 2

Revision Date: 03/26/07

Supersedes: 09/27/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-SY SYNTHETIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS#

% by Wt.

This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 29 CFR 1910.1200.

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing and/or coughing. **Carcinogenicity:** No known or suspect carcinogens present.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would be considered a nuisance dust, TLV 15mg/m<sup>3</sup>.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Tan solid of varied size and shape, slight characteristic odor. **Bulk Density (Lbs./Cu.Ft.):** 60-65 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon and nitrogen **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-UXF CERAMIC MEDIA

Page 1 of 2

Revision Date: 08/01/07

Supersedes: 02/23/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-UXF CERAMIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Ceramic, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS#

% by Wt.

This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 20 CFR 29 1910.1200.

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Not a carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material will not burn and poses no explosion hazard.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne, it would be considered a nuisance dust, TLV 10mg/m<sup>3</sup>.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Gray odorless solid of varied size and shape, **Bulk Density (Lbs./Cu.Ft.):** 85-90, **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** Not applicable, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 0

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 0

Flammability - 0

Reactivity - 0

VIBRA FINISH COMPANY cannot anticipate all conditions under which this information and our products, or products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by application of this information, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such products or product combination for their own purposes. Unless otherwise agreed in writing, buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

# MATERIAL SAFETY DATA SHEET

## VF-V PLASTIC MEDIA

Page 1 of 2

Revision Date: 03/23/07

Supersedes: 02/23/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-V PLASTIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	30-40

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.1mg/m<sup>3</sup> (respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Green solid of varied size and shape, slight characteristic odor **Bulk Density** (Lbs./Cu.Ft.): 60-65 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon and nitrogen. **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-X PLASTIC MEDIA

Page 1 of 2

Revision Date: 03/21/07

Supersedes: 02/23/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-X PLASTIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	60-70

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Auto ignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.1mg/m<sup>3</sup> (respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Green solid of varied size and shape, slight characteristic odor **Bulk Density** (Lbs./Cu.Ft.): 65-70 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon. **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-XF CERAMIC MEDIA

Page 1 of 2

Revision Date: 03/26/07

Supersedes: 02/23/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-XF CERAMIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Ceramic, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS#

% by Wt.

This material contains no components that are hazardous within the meaning of the OSHA Hazard Communication Rule 20 CFR 29 1910.1200.

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Not a carcinogen.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material will not burn and poses no explosion hazard.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne, it would be considered a nuisance dust, TLV 10mg/m<sup>3</sup>.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Tan odorless solid of varied size and shape, **Bulk Density (Lbs./Cu.Ft.):** 85-90, **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** Not applicable, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 0

Flammability – 0

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 0

Flammability - 0

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-XV PLASTIC MEDIA

Page 1 of 2

Revision Date: 03/26/07

Supersedes: 02/23/07

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-XV PLASTIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Silica Sand	14808-60-7	60-70

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain silica, TLV 0.1mg/m<sup>3</sup> (respirable).

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Blue solid of varied size and shape, slight characteristic odor **Bulk Density (Lbs./Cu.Ft.):** 65-70 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: Oxides of carbon **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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# MATERIAL SAFETY DATA SHEET

## VF-Z1 PLASTIC MEDIA

Page 1 of 2

Revision Date: 06/13/07

Supersedes: 02/27/06

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** VF-Z1 PLASTIC MEDIA, **Chemical Name:** Proprietary Blend, **Chemical Family:** Filled polymer, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture

**Manufactured by:** Vibra Finish Company 8411 Seward Road Hamilton, OH 45011

**Telephone Numbers:** East (513) 870-6300, (800) 253-1941; West: (818) 833-0033, (800) 635-0259

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Wt.</u>
Zircon	14940-68-2	50-60

See Section 3 for Hazard Identification and Section 8 for Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** No known or anticipated effects of exposure to this material.

**Routes of Exposure:** Contact. **Target Organ Effects: Eyes:** It is possible that small fragments of this material or the work piece could be propelled from the work area striking the eye. **Skin:** Handling this material with bare hands can cause abrasions. **Ingestion:** Not likely to occur. **Inhalation:** If wear residue resulting from processing should become dry and airborne, inhalation may cause sneezing and/or coughing. **Carcinogenicity:** Respirable crystalline silica is an IARC and NTP probable carcinogen based on animal studies.

### 4. FIRST AID MEASURES

None that are directly attributable to normal use of this material.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** This material may burn when exposed to a fire situation. **Hazardous Combustion Products:** Oxides of carbon. **General Hazards:** None specific to this material. **Extinguishing Media:** Water, carbon dioxide, dry chemical, foam. **Fire Fighting Instructions:** Normal firefighting procedures apply. Self contained breathing apparatus should be worn. **Other Information:** Flash Point: Not applicable, Autoignition Temperature: Not applicable, Flammability Limits in Air (% by volume): Not applicable.

### 6. ACCIDENTAL RELEASE (SPILL MEASURES)

**Spills:** Collect for reuse or disposal if contaminated with foreign matter.

### 7. HANDLING AND STORAGE

**Handling:** This product should not be used dry. Material is heavy, use proper lifting techniques. Material is abrasive, avoid contact with skin and eyes. Do not swallow.

**Storage:** No special requirements.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good general ventilation, **Eye Protection:** Safety glasses, **Skin Protection:** Heavy gloves for abrasion protection. **Respiratory Protection:** Use only NIOSH/MSHA approved respiratory protection if dust is generated, **Other Protective Equipment:** Not normally required. **Exposure Guidelines:** In the unlikely event that the wet wear residue resulting from use of this material should become dry and airborne it would contain zircon, TLV 5mg/m<sup>3</sup>.

**9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)**

**Appearance and Order:** Tan solid of varied size and shape, slight characteristic odor **Bulk Density (Lbs./Cu.Ft.):** 75-80 **Solubility in H<sub>2</sub>O:** Negligible.

**10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable, **Conditions to Avoid:** Not applicable, **Hazardous Decomposition Products:** By fire: oxides of carbon, **Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Toxicology of this product has not been established.

**12. ECOLOGICAL INFORMATION**

Environmental effects of this product have not been established.

**13. DISPOSAL CONSIDERATIONS**

Landfill in accordance with local state and federal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT Description:** Not Regulated

**15. REGULATORY INFORMATION**

All components are listed on the TSCA Inventory

**16. OTHER INFORMATION**

Hazard Rating:

*HMIS:*

Health – 1

Flammability – 1

Reactivity – 0

Protective Equipment: B

*NFPA:*

Health - 1

Flammability - 1

Reactivity - 0

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