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Jeneric/Pentron Inc. MSDS Number: 0405951-1
P.O.Box 724 CAS Number: Mixture
Wallingford, Ct 06492 Date Prepared:4/5/95
800-551-0283 Date update: 2/24/98
24 Hour Information No: Cemtrex 800-424-9300
Telephone Number for Information: 800-551-0283
Information Provided By: Manufacturer
Prepared By K.M.S.

SECTION I: Material Identification and Hazard Components

Material Name:
HF Gel

SECTION I (A): Ingredients

Hydrofluoric Acid

SECTION I (B): Hazards

Routes of entry: Inhalation, eyes, skin and ingestion.
Avoid eye contact.
Avoid inhalation / ingestion
Avoid contact with skin, mucous membrane and oral mucosa.
Signs and symptoms of exposure: Burning sensation of skin or eyes.

SECTION II: Physical / Chemical Characteristics

Exposure Limits: Not Known
Boiling Point: Approximately 100°C/212°F
Vapor Pressure (mm Hg.): 24 @ 25°C/77°F
Vapor Density (Air = 1): 1
Specific Gravity (water=1): Greater than 1
Melting Point: Not known
Evaporation Rate (Butyl Acetate=1): Less than 1
Appearance and Odor: Red in color - Sharp odor

SECTION III: Fire & Explosion Hazard Data

Flash Point(Method Used): Will not burn
Flammable Limits: None
Extinguishing Media: None
Special Fire Fighting Procedure: None required
Unusual Fire and Explosion Hazards: None known

SECTION IV: Reactivity Hazard Data

Stability: Stable

Incompatibility (Materials to avoid): Glass Instruments/Containers

Hazardous Decomposition or By products: None known

Hazardous Polymerization: Will not occur.

SECTION V: Health Hazard Information TLV (see section II)

Prolonged breathing of HF fumes may cause lung damage. May cause redness or burning of the skin. May burn mucous membrane of the mouth, throat, and esophagus if ingested, Consult a physician immediately. May cause burns to eye, Consult a physician.

Medical conditions aggravated by exposure: Any pre-existing diseases of skin, eyes or lungs, may be aggravated.

FIRST AID:

Skin: Flush w/water. Eyes: Flush w/water for 15 min., consult an ophthalmologist if needed. Ingestion: drink large amounts of water, followed by milk or milk of magnesia, consult a physician.

SECTION VI: Control and Protective Measures

Respiratory protection: OSHA approved mask

Ventilation: Use in well ventilated area.

Protective Gloves: Rubber gloves are recommended

Eye Protection: Protective goggles should be worn.

Other protective clothing or equipment: optional

Work/Hygienic Practices: Avoid contact with skin, mucus membranes and eyes. Use plastic instruments and utensils only.

SECTION VII: Precautions for Safe Handling and Use/Leak Procedures

Wipe up spill with paper towel. Avoid contact with skin and eyes. Neutralize gel with soda ash or lime and dispose of in accordance with federal, state and local regulations.

Store in cool area out of direct sunlight.

SPECIAL PRECAUTIONS: None

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Jeneric/Pentron Inc.
P.O.Box 724
Wallingford, CT 06492
800-551-0283

MSDS Number: 411952
CAS Number: Mixture
Date Prepared: 12/14/98
Date update: 11/20/98

24 Hour Information Chemtrec: 203-265-7397
Telephone Number for Information: 800-551-0283

Information Provided By: Arun Prasad, Ph.D.

Prepared By: BH

SECTION I: Material Identification and Hazard Components

Material Name:
LUTE-IT® Base/Catalyst

SECTION I (A): Ingredients

Resins (In both Base & Catalyst)

BIS-GMA

UDMA

HDDMA

Silane

Fillers (In both Base & Catalyst)

Barium Glass*

Inorganic Fluoride*

Borosilicate Glass

Silica

Zirconia

Amine and inorganic pigments (in base only)

Benzoyl Peroxide (in Catalyst only)

UV Stabilizers (in both base and catalyst)

*contains small amount of alumina.

SECTION I (B): Hazards

none known

SECTION II: Physical / Chemical Characteristics

Physical Hazard: None Known

Boiling Point: N/A

Water Reactive: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Water Solubility: Insoluble in Water

Specific Gravity: N/A

Evaporation Rate: N/A

Appearance and odor: Shaded base part, White catalyst part

SECTION III: Fire & Explosion Hazard Data

Flash Point and Method: N/A

Autoignition Temperature: N/A

Flammable limits in Air: N/A

Extinguishing Media: Chemical Foam, CO₂ or dry chemical

Special fire fighting procedures: none

Unusual Fire and Explosion Hazards: none

SECTION IV: Reactivity Hazard Data

Stability: Stable - Avoid bringing peroxide and excessive heat to base part and avoid bringing amine and excessive heat to catalyst part.

Incompatibility: N/A

Hazardous Decomposition Products: N/A

Hazardous Polymerization: N/A

SECTION V: Health Hazard Information TLV (see section II)

Health Hazards: (Acute and Chronic) - N/A

Signs and Symptoms of Exposure: N/A

Medical Conditions generally Aggravated by Exposure: N/A

Emergency First Aid Procedures: Wash skin with soap and water in the event of skin contact.

SECTION VI: Control and Protective Measures

Respirator Protection: Not necessary

Protective Gloves: Recommended

Eye Protection: Recommended

Ventilation: not required

Other Protective Equipment: not required

Hygienic Work Practices: Follow safe practices

SECTION VII: Precautions for Safe Handling and Use/Leak Procedures

Steps to be taken if material is spilled or released:

Use inert absorbent material for clean up. Dispose of in an approved manner.

Waste Disposal Method:

Follow State and Local regulations for disposal methods.

Precautions to be taken in handling and Storage:

Avoid contact with skin and eyes.

Other Precautions:

Keep containers closed when not in use.

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Jeneric/Pentron Inc.
P.O.Box 724
Wallingford, Ct 06492
800-551-0283

MSDS Number: 411952-1
CAS Number: Mixture
Date Prepared: 12/98
Date update: 12/98

24 Hour Information Chemtrec: 800-424-9300
Telephone Number for Information: 800-551-0283
Information Provided By: Arun Prasad, Ph.D.
Prepared By D.M

SECTION I: Material Identification and Hazard Components

Material Name:
LUTE-IT® Try-In

SECTION I (A): Ingredients

Carbohydrates and polysaccharides
Silica
Metal Oxides/pigments

SECTION I (B): Hazards

Glycerin
Cas#- 56-81-5
OSHA/PEL - 10 mg/m³
ACGIH/TLV- 10 mg/m³

SECTION II: Physical / Chemical Characteristics

Boiling Point: 290°C
Melting Point: 18°C
Specific Gravity: 1.4
Solubility (H₂O): Complete
Vapor Pressure: N/A
Evaporation Rate: N/A
Appearance & Odor: Colored gel, odorless

SECTION III: Fire & Explosion Hazard Data

Flash Point (Closed Cup): 198°C
Autoignition Temperature: N/A
Flammable Limits: Upper- N/A, Lower- 0.9%
Extinguishing Media: Appropriate media for surrounding fire.
Special Fire Fighting Procedures: None
Unusual Fire & Explosion hazards: None

SECTION IV: Reactivity Hazard Data

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to avoid: None documented

Decomposition products: Carbon Monoxide, Carbon Dioxide, Acrolein.

SECTION V: Health Hazard Information TLV (see section II)

Extremely hazardous substance: None

Eye Contact: May cause irritation

Routes of Entry: Inhalation, Skin, Ingestion.

FIRST AID:

Ingestion: Consult Physician

Skin Contact: Wash with water.

Eye Contact: Flush with water then contact physician.

SECTION VI: Control and Protective Measures

Protective gloves: Recommended

Eye Protection: Recommended

Other Protective devices: Not required.

Work/Hygienic practices: Observe normal precautions when working with chemicals.

SECTION VII: Precautions for Safe Handling and Use/Leak Procedures

Steps to be taken in case of a spill or discharge: Wipe up

Disposal Procedure: Dispose in accordance with all applicable Federal, State and local environmental regulations.

Precautions to be taken in handling: Avoid contact with eyes.

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Jeneric/Pentron Inc. MSDS Number: 0554951-2
P.O.Box 724 CAS Number: Mixture
Wallingford, Ct 06492 Date Prepared: 4-21-95
800-551-0283 Date update: 12/14/98
24 Hour Information No: Chemtrec 800-424-9300
Telephone Number for Information: 800-551-0283
Information Provided By: Weitao Jia
Prepared By D.M.

SECTION I: Material Identification and Hazard Components

Material Name:
Lute-It® - VLC Universal Opaquer

SECTION I (A): Ingredients

BisGMA Camphoroquinone
UDMA
HDDMA
SiO₂
inorganic pigments

SECTION I (B): Hazards

None known
Avoid eye contact
Avoid ingestion
Avoid prolonged contact with skin, mucous membrane.

SECTION II: Physical / Chemical Characteristics

Solubilty in Water: insoluble
Specific gravity: 1.2 gm/cc.
Boiling Point: N/A
Vapor Pressure: N/A
Evaporation Rate: N/A
Appearance & Odor: Shaded gel with typical ester like smell
Visible Light cure: Polymerization will occur between 400-600 wavelength and premature gelling at elevated temperature.

SECTION III: Fire & Explosion Hazard Data

Flash Point and Method: N/A
Autoignition Temperature: N/A
Flammable limits in Air: N/A
Extinguishing Media: Chemical Foam, CD₂ or dry chemical
Unusual Fire & Explosion Hazard: None

SECTION IV: Reactivity Hazard Data

Stability: Stable Soluble in Alcohol
Avoid contact with peroxide, excessive heat and direct visible light

SECTION V: Health Hazard Information TLV (see section II)

Health Hazards:(Acute and Chronic) N/A
Signs and Symptoms of Exposure: N/A
Medical Conditions Generally Aggravated by Exposure: N/A
Emergency First Aid Procedures: Wash skin with soap and water in the event of skin contact.

SECTION VI: Control and Protective Measures

Respiratory Protection: Not necessary
Protective Gloves: Recommended
Eye Protection: Recommended
Ventilation: Not required
Other protective equipment: Not required
Hygienic Work Practices: Follow safe practices

SECTION VII: Precautions for Safe Handling and Use/Leak Procedures

Steps to be taken if material is spilled or released:
Use inert absorbent material for clean up. Dispose of in an approved manner.
Waste Disposal Method:
Follow State and Local regulations for disposal methods.
Precautions to be taken in handling and Storage:
Avoid contact with skin and eyes.
Other Precautions:
Keep container closed when not in use.

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Jeneric/Pentron Inc.
P.O.Box 724
Wallingford, Ct 06492
800-551-0283

MSDS Number: 0554952-1
CAS Number: Mixture
Date Prepared: 4-27-95
Date update:3/24/98

24 Hour Information No: Chemtrec 800-424-9300

Telephone Number for Information: 800-551-0283

Information Provided By: Weitao Jia

Prepared By D.M

SECTION I: Material Identification and Hazard Components

Material Name:

Silane

SECTION I (A): Ingredients

Organosilane in alcohol based solvent.

SECTION I (B): Hazards

Avoid eye contact

Avoid inhalation

Avoid ingestion

Avoid prolonged contact with skin, mucous membrane

SECTION II: Physical / Chemical Characteristics

Solubility in Water: Miscible

Specific gravity: 0.80 gm/cc

Vapor density: 1.11

Appearance and Odor: Colorless liquid with alcohol odor

Material is evaporatable.

SECTION III: Fire & Explosion Hazard Data

Boiling Point: 65°C

Flash Point: 12°C

Ignition Temperature: 470°C

Autoignites, explodes in presence of flame.

Firefighters should wear full protective clothing and gear including a self-containing breathing apparatus.

Co₂, Hydrocarbons methacrylate, organosilane and alcohol vapors liberates when ignited. Use sand/CO₂/ash and foam for absorbance and fire deterance.

SECTION IV: Reactivity Hazard Data

Reactivity in water: Soluble

Hydrolytic moisture and oxygen contamination

SECTION V: Health Hazard Information TLV (see section II)

Flush eyes 15 min. with water, consult an Ophthalmologist immediately.

Rinse/Flush under physician care with saline solution. Remove with copious amounts of water and paper towel when in contact with skin.

ingestion: induce vomiting and fresh air, rinse oral cavity with water and exude/expectorate. Consult a physician immediately.

SECTION VI: Control and Protective Measures

Collect by mechanical means after binding with absorbing material (sawdust/sand/vermiculite,soda ash,etc.) and dispose in fire proof container.

Remove residues with paper towel. Wear protective clothing, lab coat, goggles, gloves and organic face mask.

SECTION VII: Precautions for Safe Handling and Use/Leak Procedures

Ventilation: Yes Local Exhaust: Yes(fire/explosion proof motor)

Isolation: Goggles, gloves, intraoral rubber dam recommended. Use fresh disposable brush tips with each patient- avoid cross contamination. Sterilize, autoclave and alcohol rinse all operative tools.

SPECIAL PRECAUTIONS

Store cool and dry at or below room temperature 73°F, 23°C, refrigerate preferably. Avoid moisture contact and oxygen, acid alkalies, salts, metals, amines, peroxide catalysts and alcohol. Cap vials after usage and intermittently, material is evaporable. Avoid prolonged skin, mucous membrane, aoral mucosa and gingiva (gum tissue) contact. Avoid eye contact and ingestion. Allow to bench rest and attain room temperature prior to use.

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