SECTION VII - HANDLING AND STORAGE
Store SilJet jars at room temperature.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION
Individuals with lung disorders should not be exposed to conditions where large airborne quantities of the nuisance dust exist without precautions taken to alleviate the aggravated preexisting medical condition.
Use with adequate ventilation to meet exposure limits. When exposure is excessive, NiOSH approved respiratory protection should be used.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES
Melting temperature: 3700 Degrees F (2038 Degrees C)
Solubility in Water: insoluble in water and organic solvents
pH: NA
Specific Gravity: 3.97
Appearance and Odor: Odorless, white

SECTION X - STABILITY AND REACTIVITY
None with water, air, heat or strong oxidizers.

SECTION XI - TOXICOLOGICAL INFORMATION
No evidence of carcinogenicity.

SECTION XII - ECOLOGICAL INFORMATION
Waste may be considered as inert material.

SECTION XIII - DISPOSAL CONSIDERATIONS
Dispose of safely in accordance with local, state, and federal regulations.

SECTION XIV - TRANSPORT INFORMATION
Stable under normal conditions of use, transportation, and storage.

SECTION XV - REGULATORY INFORMATION
510k #: k110642

SECTION XVI - OTHER INFORMATION
None

The data and information given in this msds are accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this material since this is beyond our control.

CE 0044

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93210 REV B

DANVILLE | SILICATING MEDIA

SilJet™

DENTAL SURFACE SILICATING MEDIA FOR CEMENTATION AND REPAIR

SilJet System can be used to prepare most dental surfaces for adhesion. It can be used for bonding or repair of porcelain, zirconia, alumina, lithium disilicate, composite, and metal surfaces. SilJet powder may be used intraorally.

SilJet System consists of the following components:

SilJet Powder – a 30-micron silicating media comprised of silica nano-coated alumina that applies a silica layer onto impacted inorganic surfaces.

S-Bond™ – a prehydrolyzed silane that reacts with the silica layer to create a reactive organic surface suitable for polymerization with composites.

Accolade™ OP Mask – a light curable paintable resin-based composite having excellent hiding power and neutral tones.

E-Bond™ – an unfilled light curable bonding resin.

Precautions

- **Never spray compressed air into the sulcus due to risk of creating an air emphysema.**
- Always place a rubber dam when using SilJet Powder intraorally. Contamination of the silicated layer, e.g., with saliva, causes the adhesive bond to deteriorate.
- The wearing of safety goggles is recommended for patient, dentist, and staff while using SilJet Powder. Danville MicroCab™ or MacroCab™ dust cabinets are a convenient method of controlling dust when SilJet is used extraorally. Danville Sand Trap™ provides intraoral dust confinement.
- Keep SilJet Powder free from moisture contamination by securely resealing its cap prior to storage.
- When using SilJet System components, please observe all warnings given on their respective Instructions for Use.

SILJET

General Procedures

SilJet Powder:

• Firmly affix SilJet Powder jar onto a MicroEtcher. A blasting pressure of 2 to 3 bar (30 to 45 psi) is recommended. Surfaces to be treated should be clean and dry.
• Direct Powder stream perpendicularly onto the target surface from a distance of 5 to 10 mm.
• Apply SilJet Powder to the bonding surface of the restoration evenly. Blasting time is approx. 15 seconds for a veneer facing and correspondingly longer or shorter times for larger or smaller areas.
• Apply a stream of dry, oil-free air for 5 seconds to remove residual powder.
• Optionally, use 3 minutes ultrasonic cleaning in dry alcohol or acetone followed by a stream of dry, oil-free air for 5 seconds.

S-Bond:

• Wet the impacted area with a thin layer of S-Bond. Dispense a drop of S-Bond into a dappen dish, apply lightly with a brush and allow to dwell 30 seconds (intraoral) or 3 minutes (extraoral). Air dry.
• Use dispensed S-Bond within 3 minutes to avoid excessive solvent loss.

For indirect restorations proceed directly to cementation.

Accolade OP Mask:

• Accolade OP Mask is optionally applied to any surface that needs to be masked for esthetic reasons.
• Accolade OP Mask can be applied in a thin layer to the silanated area directly from the 25-gauge tip or with a disposable brush.
• Light cure for 30 seconds or more using a minimum of 600mW/cm^2 light power.

E-Bond:

• E-Bond is not for use under indirect restorations.
• Dispense E-Bond into a dappen dish and apply with a brush in a thin layer onto the silanated or optionally opaqued area.
• Light cure for at least 10 seconds. E-Bond is compatible with all commercial composite restoratives.

Cementation of Restoration:

• Complete the procedure with the composite of your choice.
• SilJet Powder by itself is compatible with conventional cements.

Storage: Store all product components at or below 25^{0}C/77^{0}F

MSDS

MATERIAL SAFETY DATA - SILJET POWDER

SECTION I - PRODUCT IDENTIFICATION

Company Name: Danville Materials
3420 Fostoria Way Suite A-200
San Ramon, CA 94583
Phone (800) 827-7940
Fax: (925) 973-0764
Prepared: September 14, 2011

SECTION II - HAZARD(S) IDENTIFICATION

None

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	C.A.S No.	Percent	Limit for Air Contaminants
Alpha Alumina (Al_2O_3)	1344-28-2	85-95%	10(e)TWA mg/m^3 15 PEL mg/m^3
Silicon Dioxide (SiO_2)	7631-86-9	5-15%	5(e)TWA mg/m^3 15 PEL mg/m^3

SECTION IV - FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.
INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
NOTES TO A PHYSICIAN: No information.

SECTION V - FIRE FIGHTING MEASURES

Non-flammable; does not support combustion. Not an explosion hazard.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Spill, leak and disposal: Avoid dust during cleanup.