

SAFETY DATA SHEETS

This SDS packet was issued with item:

071705284

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071017052 071704550 078273178

Dentsply Caulk

Manufacturer MSDS Number: NFPA

3

0

0

Patterson Dental Supply Product Code:

71705201, 71705037, 71705284, 71705029, 71705011, 71705003

SECTION 1 : Chemical Product and Company Identification

MSDS Name: Calibra Silane Coupling Agent

Manufacturer Name: Dentsply Caulk

Department: Dentsply Caulk

Address:

38 West. Clarke Avenue

Milford DE 19963-0359

Internet Address: <http://www.caulk.com>

Business Phone: (302) 422-4511

For information in North America, call: (302) 422-4511

For emergencies in the US, call CHEMTREC: 800-424-9300

Hours Of Operation: (8:00 AM û 4:30 PM Eastern Time)

Manufacturer MSDS Revision Date:

02/19/02

Supersedes: 3/4/99

Trade Names:

CALIBRA TM Silane Coupling Agent

NFPA

Health: 0

Flammability: 3

Reactivity: 0

Other:

NFPA HAZARD CLASSIFICATIONS:

Specific Hazard: Not Applicable

Product Codes:

607060 û 607080 All Package Configurations

SECTION 2 : Hazardous Ingredients/Identity Information

Chemical Name

Ethyl Alcohol CAS#

64-17-5 Percent

92.6%

OSHA PEL TWA: 1000 ppm

ACGIH TLV TWA: 1000 ppm

Hazardous: Yes

MSDS Number 302

HEALTH
HAZARD

- ☐ Deadly
- ☒ Extreme DANGER
- ☐ Hazardous
- ☐ Slightly Hazardous
- ☒ Normal Material

PERSONAL
PROTECTION

- ☐ Mask
- ☐ Eye Protection
- ☐ Gloves
- ☐ Barrier Garment
- ☐ Other _____

FIRE HAZARD

Flash Points

- ☒ Below 73° F
- ☐ Below 100° F
- ☐ Above 100° F, No Exceeding 200° F
- ☐ Above 200° F
- ☐ Will Not Burn

REACTIVITY

- ☐ May Detonate
- ☐ Shock and Heat May Detonate
- ☐ Violent Chemical Change
- ☐ Unstable if Heated
- ☒ Stable

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Chemical Name
Acetone CAS#
67-64-1 Percent
7.4%

OSHA PEL TWA: 500 ppm
ACGIH TLV TWA: 500 ppm
Hazardous: Yes
Chemical Name
Benzene CAS#
71-43-2 Percent
< than 0.15 ppm

OSHA PEL TWA: 0.5 ppm
ACGIH TLV TWA: 0.5 ppm
Hazardous: Yes

SECTION 3 : Physical And Chemical Characteristics

Physical State/Appearance:
Clear liquid
Odor:
Characteristic alcohol odor.
Vapor Pressure:
44.6
Vapor Density:
1.59
Boiling Point:
78 deg C (173 deg F)
Melting Point:
-114 deg C (-173 deg F)
Solubility:
In water: Completely Soluble.
Specific Gravity:
0.8 g/cm2
Evaporation Point:
Not Established.
FlashPoint:
6 deg C (43 deg F)
Auto Ignition Temp:
423 deg C (793 deg F)
Upper Flammable Explosive Limit:
19
Lower Flammable Explosive Limit:
3.3

SECTION 4 : Fire And Explosion Hazards

Flash Point:
6 deg C (43 deg F)
Flash Point Method:
Tag Closed Cup
Upper Flammable or Explosive Limit: 19
Lower Flammable or Explosive Limit: 3.3
Auto Ignition Temperature: 423 deg C (793 deg F)
Extinguishing Media:

Use dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective, but should be used to keep fire-exposed containers cool.

Hazardous Combustion Byproducts:

Incomplete combustion may produce carbon monoxide and/or carbon dioxide.

Fire Fighting Instructions:

If a leak or spill has not ignited, use water spray to disperse vapors and protect personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures and to dilute spills to nonflammable mixtures.

Unusual Fire Hazards:

Firefighters should wear full protective clothing including a self-contained breathing apparatus in the positive pressure mode with a full facepiece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

***** SECTION 5 : Health Hazards *****

Applies to All Ingredients:

Route of Exposure:

Inhalation: Possible

Skin: Yes

Ingestion: Possible

Potential Health Effects:

Summary of Acute Hazards: Minimal health hazard in normal use and in the quantities present in this product.

For larger quantities and with prolonged exposure, ethyl alcohol is considered a moderate health hazard.

Chronic Health Effects:

Summary of Chronic Hazards: Not a chronic hazard under the normal conditions of use. However, if ingested in large quantities for a prolonged period of time, may be a carcinogenic or a cause of Fetal Alcohol syndrome.

Carcinogenicity:

Not a carcinogen under normal conditions of use.

The IARC has reported a relationship between prolonged drinking of significant quantities of alcoholic beverages and cancer of the oral cavity, pharynx, esophagus and liver.

OSHA Designation: Regulated: No

NTP Designation: Not listed

IARC Designation: Monographs: Not listed

Reproductive Toxin Information:

Ingestion of alcohol by pregnant women is associated with Fetal Reproductive Toxicity.

Signs/Symptoms:

Inhalation: None in normal conditions of use. Exposure to over 1000 ppm may cause headache, drowsiness and lassitude, loss of appetite, inability to concentrate, and irritation of throat.

Eye Contact: Liquid or vapor may cause irritation.

Skin Absorption: None in normal conditions of use. However, for large quantities and prolonged contact, similar symptoms to inhalation/ingestion may occur.

Skin Contact: May cause irritation and defatting of skin on prolonged contact.

Ingestion: None in small quantities of normal conditions of use. For large quantities, may cause depression of the central nervous system, nausea, vomiting, diarrhea.

All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA)

Chemical Substance Inventory.

SECTION 6 : Emergency And First Aid Procedures

Eye Contact:

In case of eye contact, flush immediately with flowing water for at least 15 minutes. Get prompt medical attention.

Skin Contact:

Immediately flush affected area with plenty of cool water. Wash skin with soap and water. If irritation persists, call physician.

Ingestion:

For large quantities: If victim is conscious and able to swallow, have victim drink water or milk to dilute. Never give anything by mouth to an unconscious or convulsing person. Call a physician or Poison Control Center immediately. Induce vomiting only on their advice.

SECTION 7 : Reactivity Data

Chemical Stability:

Stable

Conditions to Avoid:

(Stability): Heat, flame, sparks, elevated temperatures above 50 deg C (122 deg F).

Incompatibilities with Other Materials:

(Materials to avoid): Avoid acetyl chloride and strong oxidizing materials, which may react violently.

Hazardous Decomposition Products:

Incomplete combustion may produce carbon monoxide or carbon dioxide.

SECTION 8 : Precautions For Safe Handling

Spill Cleanup Measures:

For small quantities (as in this product): Wear gloves and safety glasses. Pick up with absorbent material, such as paper or cloth. Rinse area of spill with water. Place all material in closed container away from heat, sparks, sun and oxidizers.

Handling:

For small quantities (as in this product): Keep tightly closed, in a well ventilated area, away from heat, sparks, direct sunlight, and oxidizing agents. Protect container against physical damage. Take these same precautions when container is empty, as residual product is hazardous.

Storage:

Store away from food and beverages. Store away from extreme heat.

Hygiene Practices:

Observe normal care when working with chemicals. Wash hands after use.

Other precautions:

Avoid contact with skin. Observe normal warehouse handling procedures. Handling of this product should be by trained dental healthcare professionals only.

Waste Disposal:

Dispose of in accordance with Federal, State and Local environmental control regulations.

SECTION 9 : Control Measures

Ventilation System:

None required during normal intended use of this product. However for large quantities and prolonged exposure, methods such as enclosure, local ventilation and dilution are recommended to reduce concentration below TLV.

Hand Protection Description:

Protective gloves: Chemically impervious gloves are recommended when skin contact is possible.

Eye/Face Protection:

Safety glasses are recommended when no eye contact is anticipated. Chemical safety goggles should be worn whenever there is a possibility of splashing or other contact with eyes.

Protective Clothing/Body Protection:

Chemically resistant apron or other impervious clothing.

Respiratory Protection:

None required during normal use of this product.

Work/Hygienic practices:

Observe normal care when working with chemicals. Wash hands after use. Avoid eye and skin contact, inhalation and ingestion. Do not eat, drink or smoke when using.

SECTION 10 : Other Information

Applies to all ingredients:

TSCA 8(b): Inventory Status

All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

NFPA:

Fire Hazard: 3

Health: 0

Reactivity: 0

Specific Hazard: Not Applicable

MSDS Revision Date:

02/19/02

Supersedes: 3/4/99

Abbreviations:

NFPA û National Fire Protection Association

N.A. - Not Applicable

N.E. - Not Established

507891



DentsplySirona Safety Data Sheet

507891

1. Identification

Product Name CALIBRA[®] Silane Coupling Agent	MSDS Code Number 507891
Trade Name & Synonyms CALIBRA[®] Silane Coupling Agent	Date of Last Revision 11/18/19
Manufacturer DENTSPLY Milford	Address 38 West Clarke Avenue Milford DE 19963-1805 http://www.dentsplysirona.com
Grades or Minor Variant Identities Not Applicable	Company Telephone Number (Product Inquiries) (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
Product Use (for Canada) Not Applicable	Emergency Telephone Number CHEMTREC: 1-800-424-9300 (24 hours) (Outside U.S. +1-703-527-3887) CCN6510

2. Hazard(s) Identification



Danger
Highly Flammable Liquid and Vapor



WARNING
CAUSES SKIN IRRITATION
CAUSES SERIOUS EYE IRRITATION

Keep away from heat/sparks/open flames/hot surfaces-No Smoking
Keep container tightly closed.
Use only non-sparking tools.
Take precautionary measures against static discharge.
In case of fire: Use Dry chemical, alcohol, alcohol foam, or carbon dioxide for extinction.
Store in a well ventilated place. Keep cool.
Contaminated work clothing should not be allowed out of the workplace.
Wash thoroughly after handling.
Wear protective gloves.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get Medical attention.
IF ON SKIN: Remove immediately all contaminated clothing. Rinse with water.
If skin irritation or rash occurs: get medical attention.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local regulations.

3. Composition/Information on Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Ethyl Alcohol	64-17-5	1000 ppm	92.6
Acetone	67-64-1	500 ppm	7.4

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Rinse opened eye for several minutes under running water. If symptoms persist consult physician	Not Applicable	Not Applicable
Skin	Immediately wash with soap and water and rinse thoroughly	Not Applicable	Not Applicable
Inhalation	Supply fresh air	Not Applicable	Not Applicable
Ingestion	If symptoms persist consult physician	Not Applicable	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable

Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.

5. Fire Fighting Measures

Flashpoint Method: 6°C (43°F) Tag Closed Cup	Flammable (Explosive) Limits in Air LEL: 3.3 vol. % UEL: 19 vol. %	Autoignition Temperature: 423°C (793°F)	Other: Not Applicable
Flame Propagation or Burning Rate (for Solids): Not Applicable	Properties Contributing to Fire Intensity: Not Applicable	Flammability Classification: 3	
Extinguishing Media: Dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective, but should be used to keep fire-exposed containers cool.		Extinguishing Media to Avoid: Water with full jet.	
Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices.			
Unusual Fire and Explosion Hazards: Formation of toxic gases is possible during heating or in case of fire.			

6. Accidental Release Measures

Containment Techniques: Wear proper personal protective equipment as described in section 8. Absorb spill with inert material (e.g. vermiculite, sand, earth), then place material in suitable labeled plastic or metal container.		
Spill/Leak Clean-up Procedures and Equipment: Absorb spill with inert material (e.g. vermiculite, sand, and earth), then place material in suitable labeled plastic or metal container. Ensure adequate ventilation.		
Evacuation Procedures: Not Applicable	Special Instructions: Not Applicable	Reporting Requirements: Not Applicable

7. Handling and Storage

Handling Practices and Warnings: Wash thoroughly after handling. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. Avoid ingestion and inhalation.
Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Protect from exposure to direct light. Store away from extreme heat, food and beverages. For small quantities (as in this product): Keep syringe tightly closed, in a well ventilated area, away from heat, sparks, direct sunlight, and oxidizing agents. Protect container against physical damage. Take these same precautions when container is empty, as residual product is hazardous.

8. Exposure Control / Personal Protection



Occupational Exposure Limits: Not Applicable		
Engineering Controls: Not Applicable		
Individual Protection Measures	Personal Protective Equipment for Normal Use	Personal Protective Equipment for Emergencies
Eye/Face	Safety Glasses	Not Applicable
Skin	The glove material has to be impermeable and resistant to the product.	Not Applicable
Inhalation	Not required for normal volumes used in Dental office.	Not Applicable
Body Protection	Protective work clothing	Not Applicable
General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin.		
Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable		
Other Protective Measures and Equipment: Not Applicable		

9. Physical and Chemical Characteristics

Appearance: Clear liquid.	Odor: Characteristic alcohol odor.	
Normal Physical State: Low Viscosity Liquid	Melting Point: -114°C (-173°F) Boiling Point: 78°C (173°F)	
Specific Gravity: 0.8 g/cm ³	Solubility in Water: Completely	pH: Not Applicable
Vapor Pressure (mm Hg): 44.6	Vapor Density (AIR=1): 1.59	Evaporation Rate (Butyl Acetate =1) Not Established
Other: Not Applicable		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): High temperatures, strong oxidizing agents and acetyl chloride.	
Hazardous Products Produced During Decomposition: Carbon dioxide, and carbon monoxide from incomplete combustion.	
Hazardous Polymerization: ☐ May Occur ☒ May Not Occur	Conditions to Avoid: High Temperatures, ignition sources.
Stability? ☒ Stable ☐ Unstable	Conditions to Avoid: High Temperatures, ignition sources.

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product is an irritant to the skin and mucous membranes. On the eye the product has an irritating effect.
Emergency Overview Material causes severe eye irritation. Breathing vapors may cause drowsiness and dizziness.

Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Material causes severe eye irritation.	Single	Moderate	Irritation and possible corneal damage	Yes
Skin	Material may be an irritant and may be absorbed through the skin.	Single & Repeated	Moderate	Irritation or possible allergic response. Severe allergic response may result in breathing difficulties.	Yes
Inhalation	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. This may not be of concern when using clinically relevant quantities.	Repeated	Moderate	Chronic inhalation may cause effects similar to those of acute inhalation. Causes respiratory tract irritation. May cause motor incoordination and speech abnormalities.	Yes
Ingestion	May cause irritation of the digestive tract. This may not be of concern when using clinically relevant quantities.	Single & Repeated	Mild	Not Applicable	No
Other: Central nervous system	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Medical Conditions Aggravated by Exposure Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products.					
Carcinogenicity NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: No. All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.					
Potential Environmental Effects Do not allow to enter sewers/ surface or ground water.					
NFPA Hazard Classification Ratings (Scale 0-4) Health =2, Fire =3, Reactivity=2 Specific Hazard = None					

12. Ecological Information



Danger
Hazardous to aquatic life

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class2 (Self-assessment): The ethyl alcohol in the product is apt to volatilizes, leech into the ground water, but no data on the rates of these processes can be found. Its fate in ground water is unknown. When released into water it will volatilize and probably degrade. It would not be expected to adsorb to sediment or bioconcentrate in fish. When released to the atmosphere it will photo degrade in hours to an estimated range of 4 – 6 days in less polluted areas.

13. Disposal Considerations

Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as liquid waste in a closed container.
RCRA P-Series: None Listed, RCRA U-Series: None Listed. Waste Number D001 (Ignitable Waste)

14. Transport Information



Flammable Liquid

Regulated for Shipping: Yes	Proper Shipping Name: Ethyl Alcohol Solution	Packing Group: II
Do Changes in Quantities, packaging, or shipment method change product classification? No	Hazard Class: 3	UN Identification Number: 1170
Other: Not Applicable		

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations.
<u>U.S. Federal Regulations: CERCLA 103 Reportable Quantity:</u> No chemicals have a reportable quantity. Report spills required under federal, state and local regulations. Many states have more stringent release reporting requirements.
<u>RCRA U-Series Hazardous Waste Code :</u> Not Applicable
<u>Section 313 Toxic Chemicals:</u> This product does not contain any chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372).
<u>SARA Codes:</u> CAS# 64-17-5 Ethyl Alcohol: immediate, delayed, fire.
<u>Section 302 Extremely Hazardous Substances (TPQ):</u> None
<u>EPA Toxic Substances Control Act (TSCA) Status:</u> All of the components of this product are listed on the TSCA inventory.
<u>U.S. State Regulations California Proposition 65:</u> This product does not contain any chemicals, which are on the California Proposition 65 list.
<u>Clean Air Act:</u> CAS# 64-17-5 Ethyl Alcohol: is not listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 ozone depleters. This material does not contain any Class 2 depleters.
<u>Clean Water Act:</u> CAS# 64-17-5 Ethyl Alcohol: is not listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
<u>OSHA:</u> None of the chemicals in this product are considered highly hazardous by OSHA.
<u>WGK (Water Danger /Protection):</u> CAS# 64-17-5 Ethyl Alcohol: 0
<u>International Regulations:</u> Hazard Symbol: Flammable XI F Risk Phrases: R11 Highly Flammable, R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R36/37/38 Irritating to eyes, respiratory system. R68 Possible risks of irreversible effects. Safety Phrases: S7/9 Keep container tightly closed and in a well ventilated place. S16 Keep away from sources of ignition – No Smoking. S23 Do not breathe fumes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37 Wear suitable protective clothing and gloves. S60 This material and its container must be disposed of as hazardous waste.
Canada WHMIS for the CAS# 64-17-5 Ethyl Alcohol, classification of B2 D2A, Flammable Liquid is on the Canadian Ingredient Disclosure List.

16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex. All components are synthetically produced; none are derived from animal products.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.