SAFETY DATA SHEETS

This SDS packet was issued with item:

071805381

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071805407

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).

071805365 071805373 071805399

MATERIAL SAFETY DATA SHEET

: DENTSPLY Caulk		
: 38 W. Clarke Avenue		
: Milford DE 19963-0359		
	:)	
: 10/07/96 Date Revised 10	/07/96	
lients/Identity Informati	on	
OSHA PEL	ACGIH TLV	Other Limits
÷	\$ 	1
1	: 750 ppm	t
1	1	:
:	1	*
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		:
al Characteristics		
	3.6 Specific Gravit	y : approx. 0.79 g/ml.
20°C	3.7 Melting Point	:-95°C
	and a second	
: N.E.		
: CO2, dry chemical, water	fog, foam roved, pressure demand, self-cor	tained breathing apparatus
: CO2, dry chemical, water ; Wear MSHA/NIOSH app		stained breathing apparatus
. % : CO ₂ , dry chemical, water : Wear MSHA/NIOSH app : Keep away from fire : Unstable:	oved, pressure demand, self-cor	stained breathing apparatus
.% : CO ₂ , dry chemical, water : Wear MSHA/NIOSH app: : Keep away from fire : Unstable: \$: Visible light, high ter	oved, pressure demand, self-cor stable: X	stained breathing apparatus
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	: 38 W. Clarke Avenue : Milford DE 19963-0359 : (800) 424-9300 (Chemmer : (302) 422-4511 : 1007/96 Date Revised 10 lients/Identity Informatic OSHA PEL :- : : : : : : : : : : : : :	: 38 W. Clarke Avenue : Milford DE 19965-0359 : (300) 242-3300 (Chemirec) : (302) 422-4511 : 100796 Date Revised 10/07/96 lients/Identity Information

6.1 Route(s) of catery	: Inhalation?: Yes Skin?: Yes Ingestion?: Yes
6.2 Health hapards (scute and chronic)	: Eye Contact: May cause invitation and possible corneal damage. Individuals sensitive to (meth)acytates may develop allergic response. Possible nausea on prolonged exposure.
6.3 Carcinogenicity	: NTP?: Not listed TARC monographs?: Not listed OSHA regulated?; Not
6.4 Signs and symptoms of exposure	 Eye Contact: Initiation and possible corneal damage. Derural initiation or possible allergic reaction.
6.5 Medical conditions generally aggravated by	exposure: Open sores or wounds on skin. Known sensitivity to acrytles.
6.6 Emergency first aid procedures	 Ingestion: Consult physician. Skin Contact: Immediately wash affected area with plenty of water and scop. Eye Contact: Flash with water for at least 15 minutes then consult physician.
7.1 Steps to be taken in case material is release	d or spilled : Absorb spill with inert materials such as vermiculite or day sand then place
•	in an appropriate container for disposal.
7.2 Waste disposal methoda	in an appropriate container for disposal. : Dispose of in accordance with all applicable Federal, Scale, and Local regulations.
7.2 Waste disposal methoda	in an appropriate container for disposal. : Dispose of in accordance with all applicable Federal, Scale, and Local regulations.
7.1 Steps to be taken in case material is release 7.2 Waste disposal methoda 7.3 Precasticos to be taken in handling and sto 7.4 Other precautions	in an appropriate container for disposal, : Dispose of in accordance with all applicable Federal, State, and Local regulations, rage : A violi protonged exposure above 100°F. Store away from oxidizing agents
7.3 Waste disposal methoda 7.3 Preessedoos to be taken in handling and sto 7.4 Other preessations	in an appropriate container for disposal. : Dispose of in secondance with all applicable Federal. State, and Local regulations. : Avoid protoinged exposure above 100°F. Store away from oxidizing agents such as permises.
7.2 Waste disposal methods 7.3 Precations to be taken in handling and sto	in an appropriate container for disposal. : Dispose of in secondance with all applicable Federal. State, and Local regulations. : Avoid protoinged exposure above 100°F. Store away from oxidizing agents such as permittee.
7.2 Waste disposal methods 7.3 Presations to be taken in handling and sto 7.4 Other presations SECTION VIII - Control Measures 8.1 Respiratory protection	in an appropriate container for disposal. : Dispose of in secondance with all applicable Federal. State, and Local regulations. : Avoid protoinged exposure above 100°F. Store away from oxidizing agent such as permises. : Store away from food.
7.2 Waste disposal methods 7.3 Presations to be taken in handling and stor 7.4 Other presations SECTION VIII - Control Measures 8.1 Respiratory protection 8.2 Ventilation	in an appropriate container for disposal. : Dispose of in secondance with all applicable Federal. Scale, and Local regulations. : A void problemed exposure above 100°F. Store away from oxidizing agene such as permission. : Store away from food. : Self contained breathing apparents during high vapor concentrations. : Local chause is recommended. Mechanical venuitation using explosion-proof
7.2 Waste disposal methods 7.3 Presactions to be taken in handling and sto. 7.4 Other presautions SECTION VIII - Control Measures 8.1 Respiratory protection 8.2 Ventilation 8.3 Protective gloves	in an appropriate container for disposal. : Dispose of in secondance with all applicable Federal. State, and Local regulations. : Avoid protoinged exposure above 100°F. Store away from oxidizing agents such as peroxides. : Store away from food. : Self contained breaching apparents during high vapor concentrations. : Local exteunt is recommended. Mechanical venuilation using explosion-proof motors is acceptable.
7.2 Waste disposal methoda 7.3 Freesations to be taken in handling and sio 7.4 Other precautions SECTION VIII - Control Measures	in an appropriate container for disposal. Dispose of in accordance with all applicable Federal, State, and Local regulations. rege : A void protoinged exposure above 100°F. Store away from oxidizing agents such as periorisiden. : Store away from food. : Self contained breathing apparents during high vapor concentrations. : Local exhaust is recommended. Mechanical vensilation using explosion-proof motors is acceptable. : Lues or maker glovet.

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NFPA HAZARD CLASSIFICATIONS			
Health	1		
Flammability 3			
Reactivity	0		
Specific Hazard	-		

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NFPA - National Fire Protection Association N.A. - Not Applicable N.E. - Not Established

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DENTSPLY/International DENTSPLY/Caulk Safety Data Sheet

Product Name SDS Code Number Prime & Bond Elect[™] Universal Dental Adhesive 534801 Date of Last Revision Trade Name & Synonyms Prime & Bond Elect[™] Universal Dental Adhesive 07/31/12 Manufacturer: Address 38 West Clarke Avenue DENTSPLY Caulk Milford DE 19963-1805 http://www.caulk.com Grades or Minor Variant Identities Information Telephone Number (302) 422-4511 (8:00 AM - 4:30 PM Eastern Time) Not Applicable Product Use (for Canada) Emergency Telephone Number Dental Bonding Agent (302) 422-4511 (8:00 AM - 4:30 PM Eastern Time)

2. Hazard(s) Identification

Warning Highly Flammable Liquid and Vapour Keep away from heat/sparks/open flames / hot surfaces. No smoking. Keep container tightly closed. Wear protective gloves/eye protection/face protection. Ground / Bond container and receiving equipment. Use explosion-proof electrical lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. IF ON SKIN or Hair: Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.

In case of fire: Use CO₂ sand or extinguishing powder.

Polymerizeable trimethacrylate resin



Wash hands thoroughly after handling. Wear protective gloves IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get Medical Advice/attention. Take off contaminated clothing and wash before reuse.

Not Applicable

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3. Composition/Information on Ingredients					
Hazardous Components	C.A.S. Number	Exposure Limits	%		
Acetone	67-64-1	500 ppm	< 50		
Urethane Dimethacrylate Resin	105883-40-7	Not Applicable	< 20		
Dipentaerythritol pentaacrylate phosphate	87699-25-0	Not Applicable	< 20		
Polymerizeable dimethacrylate resin	1709-71-3 / 868-77-9	Not Applicable	< 20		

3290-92-4

4. First Aid Measures

Routes of	First Aid Instructions	Immediate	Delayed Effects
Exposure		Medical Attention	
Еуе	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 Physic	ians (Treating, Testing and Monitoring): Treat symptomatically.		

1. Product and Company Identification

5. Fire and Explosion Data

Flashpoint Method: 2°C (36°F) Pensky-Marten Closed Cup	Flammable (Explosive) Limits in Air LEL: 2.5 vol. % UEL: 12. 8 vol. %	Autoignition Temperature: Not Applicable	Öther: Not Applicable			
Flame Propagation or Burning Rate	Properties Contributing to Fire Intensity: Not	Flammability Classification: 3	-			
(for Solids): Not Applicable	Applicable					
Extinguishing Media: CO ₂ , sand or extinguishing powder. Extinguishing Media: CO ₂ , sand or extinguishing powder. With full jet.						
Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices.						
Unusual Fire and Explosion Hazards: Forn	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 protective clothing. Absorb with liquid binding material (sand, vermiculite, diatomite, acid binders, universal binders or sawdust).				
Scoop up bulk material and place in a labeled plastic	or metal container.			
Spill/Leak Clean-up Procedures and Equipment: We	ar protective clothing. Absorb with liquid binding	g material (sand, vermiculite, diatomite, acid binders, universal		
binders or sawdust). Scoop up bulk material and place in a labeled plastic or metal container. Avoid gross skin contact to minimize the possibility of contact dermatitis				
to susceptible persons. Ensure adequate ventilation.	•			
Evacuation Procedures: Not Applicable	Special Instructions: Not Applicable	Reporting Requirements: Not Applicable		

7. Handling and Storage Handling Practices and Warnings: Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.

Storage Practices and Warnings: Store in a well-ventilated place. Keep cool. Store only in the original package. Keep package tightly scaled. Protect from exposure to direct light. Store away from food and beverages.

8. Exposure Control / Personal Protection



Ventilation: None re	quired during normal intended use of this product	Other Engineering Controls: Not Applicable			
Routes of Entry	Personal Protective Equipn	Personal Protective Equipment (PPE) for Normal Use			
Eye/Face	Safety	Glasses	Not Applicable		
Skin	The glove material has to be imper	meable and resistant to the product.	Not Applicable		
Inhalation	Not required for normal vol	Not required for normal volumes used in Dental office.			
Body Protection	Protective w	Protective work clothing			
General Hygiene Co	nsiderations and Work Practices: Keep away from foodstuf	fs, beverages and feed. Immediately remove all soile	ed and contaminated clothing.		
	breaks and at end of work. Avoid contact with the eyes and				
Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable					
Other Protective Me	asures and Equipment: Not Applicable				

9. Physical and Chemical Characteristics

Appearance: Light yellow liquid.		Odor: Acetone like with characteristic sweet acrylic ester odor.		
Normal Physical State: Low viscosity liquid		Melting Point:	Not Determined	Boiling Point: 57°C (135°F)
Specific Gravity: ~0.9 g/cm ³	Solubility in Water: Partially	pH: 2.5		
Vapor Pressure (mm Hg): Not Applicable	Not Applicable	Evaporation Rate (Butyl Acetate=1): Not Applicable	
Other: Not Applicable				

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): Visible light, high temperatures, strong acids, strong oxidizing agents.			
Hazardous Products Produced During Decomposition: Methacrylates, acrylates, carbon dioxide, carbon monoxide, peroxides and irritating gases.			
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

Emergency (Emergency Overview: Material is flammable. Material is irritating to eyes, respiratory system and skin.						
	Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data:						
				to the skin in susceptible persons. On the eye the			
				cause sensitization for persons allergic to acrylate	es and		
methacrylates.	This product shows the following danger			on methods for composite materials: Irritant.			
Routes of	Signs and Symptoms	Single, Repeated,	Severity (Mild,	Acute and Chronic Health Effect(s)			
Exposure		or Lifetime	Moderate, Severe)		Target		
		Exposure			Organ(s)		
Eye	Material can cause irritation.	Single	Moderate	Irritation and possible corneal damage	Yes		
Skin	Material may be an irritant and may	Single & Repeated	Moderate	Irritation or possible allergic response.	Yes		
	be absorbed through the skin.			Severe allergic response may result			
				in breathing difficulties.			

Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma.	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
May cause irritation of the digestive tract.	Single & Repeated	Mild	Not Applicable	No
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
s, acrylates, or urethane dimetha NTP?: Not listed IARC mon	crylate resin used	in Dental restor OSHA regulated?: 1	ative products. No. All components of this product are in complia	
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		¥		
	may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause irritation of the digestive tract. Not Applicable litions Aggravated by Exposure s, acrylates, or urethane dimetha NTP?: Not listed IARC mor Requirements of the U. S. Toxic Substa ironmental Effects Do not allow	may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause irritation of the digestive tract. Not Applicable NTP?: Not listed IARC monographs?: Not listed Requirements of the U. S. Toxic Substances Control Act (TSG ironmental Effects Do not allow to enter sewers/	may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause irritation of the digestive tract. Not Applicable NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: 1 Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Subs ironmental Effects Do not allow to enter sewers/ surface or ground	may cause central nervous system those of acute inhalation. Causes respiratory effects characterized by nausea, those of acute inhalation. Causes respiratory headache, dizziness, tract irritation. May cause motor incoordination unconsciousness and coma. Single & Repeated May cause irritation of the digestive Single & Repeated tract. Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Itions Aggravated by Exposure: Open sores and wounds of the skin. Individuals with known sensitivity t s, acrylates, or urethane dimethacrylate resin used in Dental restorative products.

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Harmful to fish. Harmful to aquatic organisms.

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

14. Transport Information

Regulated for Shipping: Yes Proper Shipping Name: Acetone Solution		Packing Group: II
Do Changes in Quantities, packaging, or shipment method change	Hazard Class: 3	UN Identification Number: 1090
product classification? Yes		
Other: Not Applicable		



Flammable Liquid

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.S. Federal Regulations: CERCLA 103 Reportable Quantity: RQ is 5,000 pounds (2268Kg) for CAS# 67-64-1 Acetone. Report spills required under federal, state

and local regulations. Many states have more stringent release reporting requirements. Section 313 Toxic Chemicals: This product does not contain any chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372).

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.

Federal Regulations: The product has been classified and marked in accordance with directives on hazardous materials. Hazard Symbol: Flammable Water Hazard class1 (Self-assessment): slightly hazardous for water. SARA Codes: CAS # 67-64-1 Acute, chronic, flammable.

Other: Canada WHMIS for the acetone, classification of B2, D2B. Acetone CAS#67-64-1 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.