SAFETY DATA SHEETS

This SDS packet was issued with item:

072363786

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).

070645077 072343226 072363703 072363711 072363729 072363737 072363745 072363752 072363760 072363778 072363794 072364404 072364412 072364420 072364438

DANVILLE FLOWABLE COMPOSITE

Accolade™ StarFlow™

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

Company Name: Danville Materials
3420 Fostoria Way Ste. A-200
San Ramon, CA 94583
Phone: (800) 827-7940
Fax: (925) 973-0764
Prepared: October 11, 2006

SECTION II – HAZARDOUS INGREDIENTS OF MIXTURES

Hazardous Component	OSHA PEL	ACGIH TLV
Barium Glass	15	10
BIS GMA	ND	ND
Amorphous Silica	ND	ND

SECTION III – PHYSICAL DATA

(ND) = Not Determined NA = Not Applicable NL = Not Listed

Vapor Pressure mm HG: ND
Vapor Density (Air = 1): NA
Evaporation Rate (Ether = 1): NA
% Volatile by volume: NA
Solubility in H20: Insoluble
Boiling Point: ND
Appearance: Tooth-Shaded Resin Paste
Odor: Slight
Specific Gravity (H2 = 1): > 1

SECTION IV – FIRE AND EXPLOSION

Flash Point: > + 104 deg. F
Extinguishing Media: Carbon Dioxide, foam, dry chemical
Special Fire-Fighting Procedures: None
Flammable Limits: ND
Unusual Fire and Explosion Hazards: None

SECTION V – REACTIVITY DATA

Stability: Unstable ( ) Stable (X)
Conditions to avoid: Prolonged extreme heat beyond 40 deg. C, and intense light.
Incompatibility: ND
Hazardous Decomposition Products: None known
Hazardous Polymerization: May occur ( ) Will not occur (X) None

SECTION VI – HEALTH HAZARDS

OSHA Permissible Exposure Limits: None
Other Exposure Limit Used: None
ACGIH Threshold Exposure Limit: None
Chronic, Other: None
Acute Overexposure: Irritation to eyes and skin may occur with uncured resins. May cause skin sensitivity in select individuals.
Medical Conditions generally aggravated by exposure: None known
Hygienic Practices: None
Primary Route(s) of Exposure: Skin: Yes. Inhalation and ingestion: No

SECTION VII – EMERGENCY AND FIRST AID PROCEDURES

Signs of Exposure: Severe skin or eye irritation, redness or burning sensation.
Skin: Wash off affected area with soap and water.
Ingestion: Seek immediate medical advice, carry container with label.
Eyes: Rinse immediately with plenty of water and seek medical advice.

SECTION VIII– SAFE HANDLING & USE PRECAUTIONS

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces with
soap and water.
Waste Disposal Methods: This material contains hazardous constituents. Dispose of safely in
accordance with local, state, and federal regulations. Avoid temperatures in excess of 40 deg. C.

SECTION IX – PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: None
Eye Protection: Safety goggles
Gloves: Surgical rubber/PVC gloves
Other Clothing & Equipment: Face Mask
Ventilation: None required, local exhaust recommended.

DANVILLE
MATERIALS
3420 FOSTORIA WAY STE A-200 SAN RAMON, CALIFORNIA 94583 USA
PHONE 800/827-7940 FAX 925/973-0764
CE 0044
0418 REV J

Obtained by Global Safety Management, Inc. www.globalsafetynet.com (Tel: 1-813-435-5161)

Accolade™ & Starflow™

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: **Accolade™ & Starflow™**

Manufacturer/Supplier Trade name: Accolade™ & Starflow™

Manufacturer/Supplier Article number: **0418**

Recommended uses of the product and restrictions on use: Dental composite resin.

Manufacturer Details:
Danville Materials
3420 Fostoria Way Suite a200
San Ramon, CA 94583
Tel:

Supplier Details:
Danville Materials
3420 Fostoria Way Suite a200
San Ramon, CA 94583
Tel:

Emergency telephone number:
CHEMTREC: 1-800-424-9300, 703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture:

Irritant
Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1
Skin sensitization - Category 1
Skin irritation - Category 2
Eye Irritation - Category 2

Signal word: Warning.

Hazard statements:
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary statements:
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing should not be allowed out of the workplace.
Specific treatment (see supplemental first aid instructions on this label).
IF ON SKIN: Wash with soap and water.
Take off contaminated clothing and wash before reuse
If skin irritation or a rash occurs: Get medical advice/attention.
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 advice/attention.

Hazards not otherwise classified (HNOC): No additional information.

Other Non-GHS Classification:

WHMIS

D2B

NFPA/HMIS

NFPA SCALE (0-4)

HMIS RATINGS (0-4)

0=Minimal Hazard; 1=Slight Hazard; 2=Moderate Hazard; 3=Serious Hazard; 4=Severe Hazard.

SECTION 3: Composition/information on ingredients

Ingredients:

CAS#	Description	Wt. %
CAS 112926-00-8	Silica amorphous	<100 %
CAS 1565-94-2	BIS GMA	<100 %
CAS 13255-26-0	Barium Glass	<100 %
		Percentages are by weight

SECTION 4: First aid measures

Description of first aid measures

After inhalation: Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

After eye contact: Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Keep eyelids open while rinsing. Seek medical attention.

After swallowing: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately seek medical attention.

Most important symptoms and effects, both acute and delayed:

Shortness of breath. Headache. Nausea. Dizziness. Severe skin or eye irritation, redness or burning sensation.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: None identified.

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment:

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Wear protective eyewear, gloves, and clothing. Refer to Section 8.Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13.Keep in suitable closed containers for disposal. Use absorbent to collect the material. Wash contaminated surfaces with soap and water.

Reference to other sections: No additional information.

SECTION 7: Handling and storage

Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8.Follow proper disposal methods. Refer to Section 13.Do not eat, drink, smoke, or use personal products when handling chemical substances. Contact of resin-based composites with skin should be avoided, especially by anyone having known resin allergies.

Conditions for safe storage, including any incompatibilities:

Keep away from food and beverages. Protect from freezing and physical damage. Keep container tightly sealed. Store away from incompatible materials. Best if stored below 75° F (24° C).Do not store composite material in proximity of Eugenol-containing products, nor let the composite come into contact with materials containing Eugenol. Eugenol can impair the polymerization of the composite and cause discoloration.

SECTION 8: Exposure controls/personal protection

Control Parameters: 112926-00-8, Silica Amorphous, OSHA PEL 20 mppcf TWA; (80)/(% SiO2) mg/m3 TWA

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection: Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Tooth-Shaded Resin Paste	**Explosion limit lower:** **Explosion limit upper:**	Not Determined Not Determined
Odor:	Not Determined.	**Vapor pressure:**	Not Determined
Odor threshold:	Not Determined	**Vapor density:**	Not Determined
pH-value:	Not Determined	**Relative density:**	Not Determined
Melting/Freezing point:	Not Determined	**Solubilities:**	Insoluble in water
Boiling point/Boiling range:	Not Determined	**Partition coefficient (n-octanol/water):**	Not Determined
Flash point (closed cup):	> 104°C	**Auto/Self-ignition temperature:**	Not Determined
Evaporation rate:	Not Determined	**Decomposition temperature:**	Not Determined
Flammability (solid, gaseous):	Not Determined	**Viscosity:**	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: >1 (Water = 1)			

SECTION 10: Stability and reactivity

Reactivity: Nonreactive under normal conditions.
Chemical stability: Stable under normal conditions.
Possible hazardous reactions: None under normal processing.
Conditions to avoid: Incompatible materials. Prolonged extreme heat beyond 40° Intense light.
Incompatible materials: Strong acids, alkalis, and oxidizing agents.
Hazardous decomposition products: Not determined.

SECTION 11: Toxicological information

Acute Toxicity: No additional information.		
Chronic Toxicity: No additional information.		
Corrosion irritation		
Ocular:		Irritation to eyes and skin may be caused by uncured resins.
Sensitization:		May cause skin sensitivity in select individuals.

Single target organ (STOT):	No additional information.
Numerical measures:	No additional information.
Carcinogenicity:	No additional information.
Mutagenicity:	No additional information.
Reproductive toxicity:	No additional information.

SECTION 12: Ecological information

Ecotoxicity: No information available.
Persistence and degradability: No information available.
Bioaccumulative potential: No information available.
Mobility in soil: Not determined.
Other adverse effects: None identified.

SECTION 13: Disposal considerations

Waste disposal recommendations:
Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information

UN-Number:	Not Regulated.
UN proper shipping name:	Not Regulated.
Transport hazard class(es):	Not applicable.
Packing group:	Not applicable.
Environmental hazard:	Not applicable.
Transport in bulk:	Not applicable.
Special precautions for user:	Not applicable.

SECTION 15: Regulatory information

United States (USA)
SARA Section 311/312 (Specific toxic chemical listings): Acute.
SARA Section 313 (Specific toxic chemical listings): None of the ingredients are listed.
RCRA (hazardous waste code): None of the ingredients are listed.
TSCA (Toxic Substances Control Act): All ingredient are listed.
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): None of the ingredients are listed.

Proposition 65 (California):
Chemicals known to cause cancer: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canada
Canadian Domestic Substances List (DSL): All ingredients are listed.
Canadian NPRI Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.
Canadian NPRI Ingredient Disclosure list (limit 1%): None of the ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods.
PNEC: Predicted No-Effect Concentration (REACH).
CFR: Code of Federal Regulations (USA).
SARA: Superfund Amendments and Reauthorization Act (USA).
RCRA: Resource Conservation and Recovery Act (USA).
TSCA: Toxic Substances Control Act (USA).
NPRI: National Pollutant Release Inventory (Canada).
DOT: US Department of Transportation.
IATA: International Air Transport Association.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
ACGIH: American Conference of Governmental Industrial Hygienists.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
NFPA: National Fire Protection Association (USA).
HMIS: Hazardous Materials Identification System (USA).
WHMIS: Workplace Hazardous Materials Information System (Canada).
DNEL: Derived No-Effect Level (REACH).

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