

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

072363729

**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 072363737 072363745 072363752 072363760 072363778 072363786

072363794 072364404 072364412 072364420 072364438



## 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.

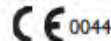
## MATERIAL SAFETY DATA SHEET

### 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



3420 FOSTORIA WAY STE A-200 SAN RAMON, CALIFORNIA 94583 USA  
PHONE 800/827-7940 FAX 925/973-0764



0418 REV1

### 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 H2O: Insoluble Boiling Point: ND  
Appearance: Tooth-Shaded Resin Odor: Slight  
Paste  
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.

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 06.16.2015

Page 1 of 6

## 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.

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 06.16.2015

Page 2 of 6

## Accolade™ & Startflow™

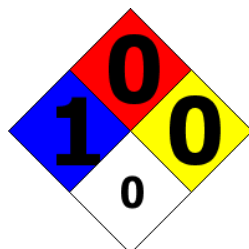
Other Non-GHS Classification:

WHMIS



D2B

NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	X

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.

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 06.16.2015

Page 3 of 6

## Accolade™ & Startflow™

### 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)/(%) SiO<sub>2</sub> mg/m<sup>3</sup> 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.

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 06.16.2015

Page 4 of 6

## Accolade™ & Startflow™

- 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

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

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

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 06.16.2015

Page 5 of 6

## Accolade™ & Startflow™

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

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

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 06.16.2015

Page 6 of 6

## Accolade™ & Startflow™

### 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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