SAFETY DATA SHEETS

This SDS packet was issued with item:

071383181

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

070467571 070467597 070467605 070467613 071383165 071383173 071383199 071383207 071383215 071383223

ZEST DENTAL SOLUTIONS

SAFETY DATA SHEET

1. Identification

Product identifier Bulk EZ™

Other means of identification

Document numberSDS-006-ZD Rev BRecommended useDental materials.Recommended restrictionsNone known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name Danville Materials

Address 2875 Loker Avenue East

Carlsbad, CA 92010

Telephone1-800-827-7940ContactCustomer Service

E-mail danvillecs@zestdent.com

Website www.zestdent.com

Emergency telephone

number

800-451-8346 / 760-602-8703

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Warning

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

Precautionary statement

Prevention Avoid breathing mist/vapors/spray. Wear protective gloves and eye/face protection. Contaminated

work clothing must not be allowed out of the workplace. Wash thoroughly after handling.

Response If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse. 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.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

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Chemical name	CAS number	%
Ethoxylated bisphenol A dimethacrylate esters	41637-38-1	6 - 33
Triethylene glycol dimethacrylate	109-16-0	2 - 10
Bisphenol A gycidyl methacrylate	1565-94-2	1 - 8
Urethane dimethacrylate	72869-86-4	0.1 - 6
Fluoride compound	Proprietary	Proprietary
Glass compound	Proprietary	Proprietary

Composition comments

All concentrations are in percent by weight.

The manufacturer has claimed one or more hazardous ingredients as trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Rash.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

During fire, hazardous combustion products are released that may include: Carbon oxides. Nitrogen oxides Phosphorus oxides. Fumes of metal oxides. Silicon oxide fumes. Fluorine

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

and precautions for firefight Fire fighting

equipment/instructions

Specific methods
General fire hazards

compounds.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. When using, do not eat, drink or smoke. Avoid breathing mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Contact of resin-based composites with skin should be avoided, especially by anyone having known resin allergies. Avoid eugenol as it will inhibit set. Use only in dry field. Water and oily air will inhibit set and bond. Use a dispensing gun to avoid hand strain. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in a well-ventilated place. Keep away from food and drink. Keep refrigerated. Do not freeze. 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. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants	(29	CFR	1910	1000)
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Components	Type	Value	
Fluoride compound	PEL	2.5 mg/m3	
US. OSHA Table Z-2 (29 CFR 1	910.1000)		
Components	Туре	Value	Form
Fluoride compound	TWA	2.5 mg/m3	Dust.
US. ACGIH Threshold Limit Va	lues		
Components	Туре	Value	Form
Fluoride compound	TWA	2.5 mg/m3	
Glass compound	TWA	1 fibers/cm3	Fiber.
US. NIOSH: Pocket Guide to C	hemical Hazards		
Components	Type	Value	Form
Fluoride compound	TWA	2.5 mg/m3	
Glass compound	TWA	3 fibers/cm3	Fiber.
•		3 fibers/cm3	Fibrous dust.
		5 mg/m3	Fiber, total
		5 mg/m3	fibers, total dust

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Fluoride compound	3 mg/l	Fluoride	Urine	*
	2 mg/l	Fluoride	Urine	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

General ventilation normally adequate. Ensure adequate ventilation, especially in confined areas. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove **Hand protection**

supplier.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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Respiratory protection None required where adequate ventilation conditions exist. In case of insufficient ventilation, wear

suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Viscous paste. **Form**

Color White to slightly brownish.

Odor None.

Odor threshold Not available. Neutral. pН Melting point/freezing point None known.

range

None known. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Initial boiling point and boiling

Not available.

None known.

(%)

Flammability limit - upper

Explosive limit - lower (%)

(%)

Not available.

Not available.

Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** None known.

Other information

Not explosive. **Explosive properties Oxidizing properties** Not oxidizing.

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Freezing temperatures. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Nitrogen oxides. Phosphorus oxides. Fluorine compounds. Fumes of metal oxides, silicon oxides.

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11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Causes skin irritation. May cause an allergic skin reaction. Skin contact

Causes serious eye irritation. Eye contact

May cause discomfort if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis, Rash.

Information on toxicological effects

Not known. Acute toxicity

Skin corrosion/irritation Causes skin irritation.

Serious eve damage/eve

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Causes serious eye irritation.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Fluoride compound (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans. Glass compound (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. **Chronic effects**

12. Ecological information

Based on available data, the classification criteria are not met for hazardous to the aquatic **Ecotoxicity**

environment.

Persistence and degradability The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential No data available on bioaccumulation. Mobility in soil No data available for this product.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose in accordance with applicable federal, state, and local regulations.

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14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not applicable.

the IBC Code

15. Regulatory information

US federal regulations

This mixture is a product regulated by the FDA. Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is considered hazardous. All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Fluoride compound (CAS Proprietary) Glass compound (CAS Proprietary)

US. Pennsylvania Worker and Community Right-to-Know Law

Fluoride compound (CAS Proprietary)

US. Rhode Island RTK

Fluoride compound (CAS Proprietary) Glass compound (CAS Proprietary)

California Proposition 65



WARNING: This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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California Proposition 65 - CRT: Listed date/Carcinogenic substance

Listed: April 6, 2010 Cumene (CAS 98-82-8) Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987 Listed: September 2, 2011 Titanium compound (CAS Proprietary)

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009 Toluene (CAS 108-88-3) Listed: January 1, 1991

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Glass compound (CAS Proprietary)

16. Other information, including date of preparation or last revision

21-February-2018 Issue date 21-February-2018 **Revision date**

Version #

Flammability: 1 Physical hazard: 0

NFPA ratings

HMIS® ratings



Health: 2

Disclaimer

940051

Version #: 07

Danville Materials cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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