ZEST DENTAL

SAFETY DATA SHEET

1. Identification

Product identifier CHAIRSIDE® Attachment Processing Material

Other means of identification

Document number SDS-023-ZD Rev B Recommended use Dental adhesive. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name Zest Anchors, LLC 2875 Loker Avenue East **Address**

Carlsbad, CA 92010

Telephone 1-800-262-2310 Contact **Customer Service**

E-mail customerservice@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 2 Sensitization, skin Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment, Category 2

long-term hazard

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. Toxic to

aquatic life with long lasting effects.

Precautionary statement

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

workplace. Wear protective gloves/eye protection/face protection. Avoid release to the

environment.

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

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. Collect spillage.

Store away from incompatible materials. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

CHAIRSIDE® Attachment Processing Material 1/7 943667 Version #: 02 Revision date: 03-December-2018 Issue date: 03-May-2018

SDS US

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Barium glass	Unknown	50 - 70
Ethoxylated bisphenol A dimethacrylate	41637-38-1	5 - 30
Bisphenol A glycidyl methacrylate	1565-94-2	1 - 15
Diurethane dimethacrylate	72869-86-4	1 - 15
Triethylene glycol dimethacrylate	109-16-0	1 - 15

Composition comments

All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.

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

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important

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.

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

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

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

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

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.

Specific methods General fire hazards

equipment/instructions

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

Will burn if involved in a fire.

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. 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.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

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. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Persons susceptible to allergic reactions should not handle this product. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

Components	Туре	Value	
Peroxide (CAS 94-36-0)	PEL	5 mg/m3	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
Peroxide (CAS 94-36-0)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Peroxide (CAS 94-36-0)	TWA	5 mg/m3	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

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

supplier.

Skin protection

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

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 Paste.

CHAIRSIDE® Attachment Processing Material

Form Paste.

Color Not available.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 20.5 mm²/sViscosity temperature104 °F (40 °C)

Other information

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

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

otrong oxidizing agenta

Hazardous decomposition products

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic

compounds whose composition have not been characterized.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

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

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed.

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

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Peroxide (CAS 94-36-0) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicityThis 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.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components Species Test Results

Peroxide (CAS 94-36-0)

Aquatic

Acute

Algae LC50 Pseudokirchnerella subcapitata 0.0711 mg/l, 72 hours Fish EC50 Oncorhynchus mykiss 0.0602 mg/l, 96 hours

Persistence and degradability

The major component of the product consists of an inorganic compound which is not

biodegradable. For other components of the product no data are available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethoxylated bisphenol A dimethacrylate (CAS 41637-38-1) 5.3 - 5.62
Peroxide (CAS 94-36-0) 3.46
Triethylene glycol dimethacrylate (CAS 109-16-0) 1.88

Mobility in soil No data available for this product.

Other adverse effects None known.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN3082

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Diurethane dimethacrylate; Peroxide)

CHAIRSIDE® Attachment Processing Material
943667 Version #: 02 Revision date: 03-December-2018 Issue date: 03-May-2018

Transport hazard class(es)

9 Class Subsidiary risk 9 Label(s) Packing group Ш

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, IB3, T4, TP1, TP29

155 Packaging exceptions Packaging non bulk 203 Packaging bulk 241

IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Diurethane dimethacrylate; Peroxide)

Transport hazard class(es)

Class 9 Subsidiary risk 9 Label(s) Ш Packing group **Environmental hazards** Yes **ERG Code**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN3082 **UN number**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIURETHANE **UN proper shipping name**

DIMETHACRYLATE; PEROXIDE)

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant Yes F-A. S-F **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

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.

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

Not established.

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

Yes

chemical

Classified hazard Skin corrosion or irritation

Serious eye damage or eye irritation categories Respiratory or skin sensitization

CHAIRSIDE® Attachment Processing Material

SDS US

943667 Version #: 02 Revision date: 03-December-2018 Issue date: 03-May-2018

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Peroxide (CAS 94-36-0)

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

Peroxide (CAS 94-36-0)

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

Peroxide (CAS 94-36-0)

US. Rhode Island RTK

Peroxide (CAS 94-36-0)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

Issue date 03-May-2018

Revision date 03-December-2018

Version # 02

NFPA ratings



Disclaimer

Zest Anchors 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.

CHAIRSIDE® Attachment Processing Material

SDS US