This SDS packet was issued with item: 072797850

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

072797827 072797835



### MATERIAL SAFETY DATA SHEET

Product Identity:

DIE SPACER (ASSORTED COLORS)

#### SECTION I.

#### Identification

### **REVISION NOVEMBER 2010**

Manufacturer

Dental Ventures of America Inc. 1787 Pomona Rd. Suite I Corona, CA. 92880 Emergency Telephone Number: Infotrack (800) 535 - 5053 Product Information Number: (951) 270 - 0606

#### SECTION II.

### **Composition/Information on Ingredients**

UN #1193

Packing Group II

SECTION III.	Hazardou	s Ingredient:	s/Identify Info		
HAZARDOUS COMPONENTS	CAS.NO.	OSHA PEL	ACGIH TLV	OTHER RECOMMENDED	% (Optional)
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm	N.A.	>50
Aromatic 100*	64742-95-6	N.A.	100 ppm	N.A.	>3
PM Acetate	108-65-6	N.A.	100 ppm	N.A.	>4
*Component Parts of Aromatic 1	100				
*Trimethylbenzenes	25551-13-7	N.A.	100 ppm	N.A.	>2
*Psuedocumene	95-63-6	N.A.	100 ppm	N.A.	>1
*Copper Phthalo Blue NFNC (in	n blue) 147-14-8	N.A.			
(May be present in pigment)*					
Carbon Black*	1333-86-4	3.5 mg/M3	3.5mg/M3	N.A.	
Crystalline Silica*	14808-60-7	0.1mg/M3	0.1mg/M3	N.A.	
May be present: **		-			
Xylene**	1330-20-7	100 ppm	100 ppm		
Cumeme**	98-82-8	50 ppm	50 ppm		
Iron Oxides**	1309-37-1	5 mg/M3	5 mg/M3		
Manganese Oxide**	1317-34-6	5mg/M3	5 mg/M3		
Non-hazardous Ingredients					

Acrylic Copolymers - proprietary pigments. Lt Organic Yellow 31837-42-0; Organic Red 2786-76-7; Titanium Dioxide 13463-67-7 Special B.Hazard Rating: Reactivity:1Fire:3Toxcity:2UN 1993UN 1263

SECTION IV.	First Aid Measures				
Inhalation:	Remove to fresh air.				
Eye Contact:	Substance can cause irritation and transient corneal injury. Flush well with water. Consult physician.				
Skin:	Wash well with soap and water.				
Ingestion:	Do not induce vomiting. Keep person warm and quiet. Get medical attention.				
SECTION V.	Fire-Fighting Measures				
Flash Point: -4 C/2	25 F S.F.C.C. Flammable Limits: 516 C/961 F LEL - 1 est. UEL - 12 est.				
Extinguishing Media	Alcohol Foam, CO 2, Dry Chemical, Water Spray				
Special Fire Fighting Procedures	:				
For Bulk Quantity Product: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH-approved or equivalent) and full protective gear. Use water spray to cool containers.					
For Small Bottle: Smother with water, wet blanket or towel. cover with sand, dirt. Keep area isolated.					
Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition such as a bunsen burner or furnace and flash back.					
file:msds 11.10 die spacer 1-3 Material can form explosive vapors with air.					
Obtained by Global Safety Management, Inc. www.globalsafetynet.com (Tel: 1-813-435-5161)					

### Product: DIE SPACER (ASSORTED COLORS)

**SECTION VI.** 

**Accidental Release Measures** 

Keep all unprotected and unnecessary people away. Remove all sources of ignition. Wear MSHA/NIOSH approved respirator. Pressure-demand, self-contained breathing apparatus is preferred. Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for disposal.

Small Spills:	Clean with paper towels and dispose of properly or remove to out of doors to allow vapors to evaporate.
Caution:	Floors may be slippery. Keep out of water supplies.

SECTION VII.	Handling and Storage	
--------------	----------------------	--

Store away from excessive heat or open flame. Store bottles upright. Make sure caps secured tightly. Limit storage of flammable material to appropved areas. For bulk transfer, ground all containers.

Keep away from spark producing tools or equipment.

SECTION VIII.	Exposure Controls / Personal Protection	
---------------	---	--

Respiratory Protection:	None required if good ventilation is maintained.
For Bulk:	NIOSH approved vapor mask as required for PM Acetate.
Ventilation - Local Exhaust:	For high concentration: Explosion proof local exhaust at point of vapor. Keep area well ventilated.
Protective Gloves:	Impervious gloves - latex gloves adequate.
Eye Protection:	Safety goggles or glasses - splashproof.
Other Protective Clothing or Equip.:	Rubber apron; eye bath and safety shower.
Health Hazard Data:	Routes of Entry: Inhalation, Skin, Ingestion
Health Hazards:	Irritant to skin, eyes and respiratory tract. Prolonged breathing can cause dizziness,
	nausea, headache. Repeated contact can cause defatting and dermatitis.
Symptoms of Exposure:	Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, and
	irritation of nose, throat and lungs. Repeated overexposure to methyl ethyl ketone, PM
	Acetate and Aromatic 100 can cause CNS effects.
Ingestion:	May cause irritation of digestive tract, drowsiness, dizziness, loss of coordination and fatigue.
Eyes:	Direct contact may cause burning, tearing, redness and swelling.
Proposition 65 Warning:	This product contains trace amounts of heavy metals which the State of California have
<u>.</u>	determined are carcinogens or cause reproductive toxicity.(As,Cd,Pb,Hg,and/or Ni are
	present in trace PPM)

SECTION IX.	Physical and (	Chemical Properties
Boiling Point:	Initial	80C/176F
Specific Gravity:		approx. 1
Vapor Pressure:	20C/68F	70 est.
Melting Point:	-86C/-123F	
Vapor Density:	>1	
Evaporation Rate (Butyl Acetate = 1)	>1	
Solubility in Water:	Pigment insolu	ble. Vehicle and solvent only somewhat.
Appearance and Odor:	Blue, Red etc.	Acetate odor. Thinner: Clear
SECTION X.	Stability and Re	eactivity
Stability:	Stable	Keep away from excessive heat or open flame.
Incompatibility:	Strong oxidizer	
Hazardous Decomposition or By-produ	U	
Hazardous Polymerization:		Keep away from excessive heat or open flame.

Dental Ventures of America, Inc.

# Material Safety Data Sheet, Pg. 3 Product: DIE SPACER (ASSORTED COLORS)

#### **SECTION XI.**

**Toxicological Information** 

Please refer to Sections III - X.

SECTION XII.	Ecological Information	

Please refer to Sections III - X.

SECTION XIII	Disposal Considerations	
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For discard, this is a hazardous waste. RCRA #D001. Reportable quantity is 100 lbs. (40 CFR 302). In accordance with local, state and federal regulation: Incinerate liquid in approved equipment. For small quantities, allow solvent to evaporate in well ventilated areas or outdoors (preferred). Dumping into sewers, on the ground, or into any body of water is strongly discouraged and may be illegal.

#### SECTION XIV.

Transport Information

Transport in accordance with local, state and federal regulations.

#### SECTION XV.

Regulatory Information

This product is considered hazardous under OSHA Haz. Com. Std. (29CFR 1910.1200). This product is a 'controlled product' under Canadian WHMIS. Under SARA TITLE 3: Section 311/312, this product is a hazardous chemical (see above). Under SARA TITLE 3: Section 313 (40 CFR 372) above de minimis concentrations: Methyl Ethyl Ketone, Trimethylbenzene, Pseudocumene, Cumene. Refer to Section III of this document.

The data herein relates to the product named and is based upon information that Dental Ventures of America, Inc. believes to be reliable and accurate. No warranty expressed or implied is intended. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. This information is offered solely for your consideration and interpretation.



### MATERIAL SAFETY DATA SHEET

Product Identity:

### DIE SPACER THINNER

	SECTION I.	Identi	fication	RE	VISION	DEC	<b>EMBER 2010</b>	)
Manufacturer			0,	Telephone N				
	Dental Ven	tures of Americ	a Inc.	Inc. Infotrack: (800) 535 - 5053				
	1787 Pomo	na Rd., Suite I		Product Infor	mation Numbe	r:		
	Corona, CA	A. 92880		(951)	270 - 0606			
	SECTION II.	Comp	osition/Inforr	nation on Ingredie	ents			
	Generic Description:		Added to anot	her product to make i	t more liquid.			
	Use:		Dilute anothe	r product.	_			
	SECTION III.	Hazar	dous Ingredie	ents/Identity Inform	mation			
	Hazard Components: Methyl Ethyl Ketone*	CAS Number (78-93-3)	OSHA PEL	ACGIH TLV 200ppm	OTHER L STFL=300		% LIMITS 70-100	

Methyl Ethyl Ketone\* (78-93-3) 200 ppm 200ppm STEL=300ppm 70-100 \*This ingredient is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

#### SECTION IV.

First Aid Measures

Eye Contact: Immediately flush eye with copious amounts of water for 15 minutes. Obtain immediate medical attention. Skin Contact: Irritation upon direct contact. Remove contaminated clothing and wash affected area with soap and water. Inhalation: Remove to fresh air, Perform artificial respiration if breathing is difficult. Obtain immediate medical attention. Medical Conditions Generally Aggravated by Exposure: Pre-existing skin disorders. Inhalation of material may aggravate asthma/Inflammatory pulmonary disease. Note to Physician: There is no specific antidote. Treatment directed to control of symptoms. Aspirated material during vomiting may cause lung injury, therefore, gastric lavage after endotracheal intubation most likely procedure, if necessary.

#### SECTION V.

#### Fire-Fighting Measures

Flash Point (Method): App25 F (TCC) Flammable Limits: LEL: 1.4% UEL: 11.5%

Extinguishing Media: Water spray, foam or carbon dioxide.

Special Fire Fighting Procedures: Use water spray to cool fire-exposed containers, disperse vapors. Re-ignition is possible. Use self-contained breathing apparatus and protective clothing. Unusual Fire and Explosion Hazards: Vapors may travel distances to ignition. Sources and flash back explosively. This material may produce a floating fire hazard.

#### SECTION VI. Ac

Accidental Release Measures

In Case Material is Released or Spilled: Remove all possible ignition sources. Spills can be contained with non-combustible materials, i.e. sand or earth. Prevent liquid from entering sewers, watercourses, or low areas. Remove contaminated and waste material to containers for appropriate disposal.

SECTION VII.	Handling and Storage
Handling and Storage:	Flammable, avoid heat, sparks & flames. Use only with adequate ventilation and avoid direct contact \with eyes/skin. Ground all metal containers when transferring liquid. Wash thoroughly after handling. Any use of this product in elevated temperature may be hazardous.

### Product: DIE SPACER THINNER

SECTION VIII.	Exposure Controls / Person	al Protection	
Precautions: Protective Clothing or Equipment: Respiratory: Other:	Local Exhaust: Good Mechanical (General): As Needed. Safety Glasses/Goggles, Butyl gloves and protective clothing to avoid direct contact. Use self-contained breathing apparatus in high vapor concentrations. Avoid direct contact with eyes/skin. Wear protective safety equipment as necessary to minimize contact. Wash hands with soap and water and launder contaminated clothng before use.		
SECTION IX.	Physical and Chemical F	Properties	
Appearance: Melting Point: Vapour pressure: ((mm Hg): Viscosity:(20c) Water solubility: Boiling Point: (1013 mbar) Smell:	Clear, low viscosity liquid. NE 83@75F NE Moderately soluble. App 175 F Mild odor.	Form: Vapour Density: (Air-1) NE Evaporation Rate: (Butyl ace Specific Gravity: (H2)=1): Color: Clear	
SECTION X.	Stability and Reactivity		
Stability: Stable XX Incompatibility (Materials to Avoid): Hazardous Decomposition Products: Hazardous Polymerization:	Conditions to Avoid: Caustics, amines, alkanolamin and chlorinated compounds. Carbon monoxide/dioxide. S May Not Occur: XX	None known. nes, aldehydes, ammonia, strong o ee Section II.	xidizing agents,
SECTION XI.	Toxicological Informatio	n	
Route (s) of Entry: Inhalation: Health Hazards (Acute/Chronic:	Acute: Moderately toxic by ir Esophagus accompanied by r dizziness & drowsiness. Inhala	stion: Yes ngestion with irritation of mouth, ausea, abdominal discomfort, von ution at high concentrations causes g/chest pain and possible loss of c	niting, diarrhea, 5 irritation of
SECTION XII.	<b>Ecological Information</b>		
Data not available.			
SECTION XIII.	Disposal Consideration	s	
Disposal of this product should be in a	ccordance to local, state, provincia	l and federal regulations.	
SECTION XIV.	Transport Information		
Not dangerous according to specifi	cations stated.		

#### SECTION XV.

Designation According to EC Guidelines: Observe normal safety regulations when handling chemicals.

**Regulatory Information** 

The data herein relates to the product named and is based upon information that Dental Ventures of America, Inc. believes to be reliable and accurate. No warranty expressed or implied is intended. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. This information is offered solely for your consideration and interpretation.

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



# SAFETY DATA SHEET DIE SPACER THINNER

1. PRODUCT AND COMPANY IDENTIFICATION

Date Revised: September 2017

**PRODUCT DESCRIPTION:** Die Spacer Thinner **MANUFACTURER** Dental Ventures of America, Inc. 1787 Pomona Rd., Suite C

Emergency Contact: Infotrack 800.535.5053 Emergency Phone: 951.270.0606 Alternative Emergency Phone: 800.228.6696

USE OR APPLICATION: Added to another product to make it more liquid

#### 2. HAZARD(S) IDENTIFICATION

#### **GHS CLASSIFICATIONS**

Health:

Eye Irritation, Category 2

Narcotic Effects, Category 3

Physical:

Flammable Liquids, Category 2

SIGNAL WORD

Corona, 92880, CA.

Danger

**GHS LABEL ELEMENTS** 



#### HAZARD STATEMENTS

H226: Flammable liquid and vapor.

H319: Causes serious eye irritation.

H336: May cause3 drowsiness or dizziness.

#### PRECAUTIONARY STATEMENTS

P210: Keep away from heat/sparks/open flames hot surfaces - no smoking.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/rotective clothing/eye protection/face protection.

P233: Keep container tightly closed.

240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/veventilating/lighting/.../equipment.

P242: Use only non-sprking tools. P243: Take precautionary measures against satic discharge.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash skin and hands thoroughly after handling.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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# SAFETY DATA SHEET

### **DIE SPACER THINNER**

#### 2. HAZARD(S) IDENTIFICATION (Continued)

P312: Call POISON CENTER or doctor/physician if you feel unwell.

P264: Wash skin and hands throughly after handling.

P303+P361+P353: If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with wat3er/shower.

P304+P340: If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing. **STORAGE:** 

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

#### **DISPOSAL:**

7944l5O1: Dispose of in a manner consistent with federal, state and local regulations.

### EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear, colorless liquid.

IMMEDIATE CONCERNS: R/36/37/38: Irritating to eyes, respiratory system and skin.

#### **POTENTIAL HEALTH EFFECTS**

**EYES**: Severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage.

SKIN: Prolonged or repeated contact may cuase skin irritation.

**INGESTION**: Ingestion may cause headache, dizziness, fatigue and CNI depression.

**INHALATION:** May cause headaches and dizziness.

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing eye and skin disorders or lung allergies may be aggravated by exposure.

**ROUTES OF ENTRY:** Inhalation or direct contact with skin or eyes.

**IRRITANCY:** Irritating to eyes, respiratory system and skin.

SENSITIZATION: May cause allergic skin reaction.

HEALTH HAZARDS: Danger of cumulative effects.

**PHYSICAL HAZARDS:** Flammable liquid and vapor. Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. Affects CNS.

#### 3. COMPOSITION /INFORMATION ON INGREDIENTS

Under GHS-OSHA 4.11 the precise composition of this product is withheld as confidential business information (CBI). A more complete disclosure can be provided to a health, or safety professional when necessary.

#### SUBSTANCES or MIXTURE

Mixture		
NO. COMPONENT	CAS.NO	WL%
Methyl ethyl ketone (MEK)	78-93-3	100



### **DIE SPACER THINNER**

#### 4. FIRST-AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Wash with soap and water. Get medical attention.

- **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- **INGESTION:** If swallowed, do not induce vomiting. Do not give anything to drink. Obtain immediate medical attention.

#### SIGNS AND SYMPTOMS OF OVER EXPOSURE:

**EYES:** Causes eye irritation.

SKIN: Causes irritation to skin.

**INGESTION:** Gastrointestinal tract irritation and depression of the CNS.

**INHALATION**: Signs and symptoms of excessive exposure may be CNS effects such as sleepiness and unconsciousness.

ACUTE TOXICITY: R36/37: Irritating to eyes and respiratory system.

CHRONIC EFFECTS: None expected.

#### 5. FIRE-FIGHTING MEASURES

GENERAL HAZARD: Flammable liquid and vapor.

- **EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires invoving this materials.
- **FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-de mand (MSHA/NIOSH approved equivalent) and full protective gear.
- **FIRE FIGHTING PROCEDURES:** Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.
- HAZARDOUS DECOMPOSITION PRODUCTS: Combustible by-products of carbon monoxide/diox ide. COMMENTS: Exposure to heat above 200C (392F) may release Methyl Methacrylate monomer (CAS 80-62-6). (OSHA PEL, ACGIH TLV = 100ppm.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

**LARGE SPILL**: Remove all sources of ignition. Use spark-proof tools. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

#### ENVIRONMENTAL PRECAUTIONS: WATER SPILL:

Contain spill with dike to prevent entry into sewers. Absorb liquid and place in sealed container for disposal.

GENERAL PROCEDURES: Remove all sources of ignition. Use spark-proof tools.

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### **DIE SPACER THINNER**

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing. **HANDLING:** Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low

spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

**STORAGE:** Store in cool place in original container and protect from sunlight. Keep away from sources of ignition.

#### **STORAGE TEMPERATURE:**

Avoid temperatures exceeding 100F/38C and incompatible materials.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

#### PERSONAL PROTECTIVE EQUIPMENT:

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Nitrile rubber and PVC are not suitable protective materials; Neoprene is recommended.

**RESPIRATORY:** NIOSH/MSHA approved air purifying respirator with an organ vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**WORK HYGIENIC PRACTICES:** Wash with soap and water. Get medical attention if irritation develops or persists.

**OTHER USE PRECAUTIONS:** Clothing: S24 Avoid contact with skin and clothing. Launder contaminated clothing before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid ODOR: Mild ketone odor. APPEARANCE: Clear, colorless liquid FLASH POINT AND METHOD: -4C (25F) TAG CC FLAMMABLE LIMITS: 2.6% to 12.8% VAPOR PRESSURE: 83mmHg at 24C (75F) BOILING POINT: 79C (175F) SOLUBILITY IN WATER: Moderate EVAPORATION RATE: 6.0 (n-Butyl Acetate=1) SPECIFIC GRAVITY: 0.86 (water=1) Page 4 (VOC): 860.000 g/L



### **DIE SPACER THINNER**

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Heat, flames, ignition sources and incompatibles.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Barbon Monoxide and other toxic or irritating compounds may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

#### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Moderately irritating to eyes and skin.

SKIN EFFECTS: Irritating to skin. May cause allergic skin reaction with prolonged contact.

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Keep out of storm sewers and ditches which lead to waterways.

No other data is available.

#### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Please refer to Section 8 for Exposure Controls/Personal Protection.

#### 14. TRANSPORT INFORMATION

#### DOT DEPARTMENT OF TRANSPORTATION/AIR/VESSEL(IMO/IMDG)

UN Number: 1993 UN Proper Shipping Name: Methyl Ethyl Ketone. TRANSPORT HAZARD CLASS(S) 3 PACKING GROUP NUMBER: II

#### Page 5



**DIE SPACER THINNER** 

### 15. REGULATORY INFORMATION

#### **UNITED STATES**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) 313 REPORTABLE INGREDIENTS: Section 313: Methyl ethyl ketone.

CANADA

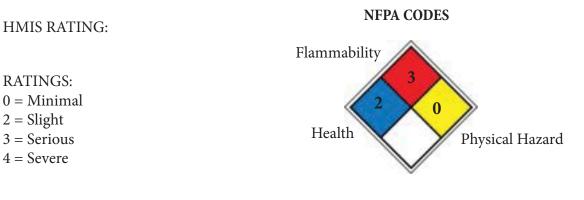
WHMIS HAZARD SYMBOL AND CLASSIFICATION



WHMIS (WOKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This product is listed on the TSCA Inventory. WHMIS CLASS: Class B2 - Flammable

#### 16. OTHER INFORMATION

DATE PREPARED: September 2017 SUPERSEDES MSDS: August 2014



#### MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, Dental Ventures of America, Inc. does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

Page 6



## PRODUCT DESCRIPTION: DVA Die Spacer - Gold

1. PRODUCT AND COMPANY IDENTIFICATION

Date Revised: June, 2015

MANUFACTURER Dental Ventures of America, In 1787 Pomona Rd., Suite C Corona, 92880, CA.	Emergency Contact: Infotrack: 800.535.5053 Emergency Phone: 951.270.0606 Alternative Emergency Phone: 800.228.6696
USE OR APPLICATION:	The application of die spacer results in additional space between the finished restoration and the natural tooth surface to accommodate the cement used for bonding the restoration.

#### **USES ADVISED AGAINST:** Not known.

#### 2. HAZARD(S) IDENTIFICATION

#### **GHS CLASSIFICATIONS**

#### SIGNAL WORD

DANGER

#### **GHS LABEL ELEMENTS**

Using the Toxicity Data listed in Section 11 and 12 the product is labeled as follows:



#### Classification of the substance or mixture

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction
H361D	Suspected of damaging the unborn child.
H336	May cause drowsiness or dizziness.
1;H400	Very toxic to aquatic life
ic 2; H411	Toxic to aquatic life with long lasting effects.
	H319 H317 H361D H336 I;H400



### DIE SPACER (Gold), Pg. 2

#### HAZARD STATEMENTS

H225 Highly flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H361d Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

### [Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction. P391 Collect spillage.

### [Storage & Disposal)

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulations.



#### 3. COMPOSITION /INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chem	nical Designations	Weight %	GHS Classification	Notes
Butanone CAS Number:	0000078-93-3	50 - 75	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Copper				
CAS Number:	0007440-50-8	10 - 25	Not Classified	[1][2]
Zinc powder (sta				
CAS Number:	0007440-66-6	1.0 - 10	Aquatic Acute 1;H400	<b>F</b> . <b>P</b>
m 1			Aquatic Chronic 1;H410	[1]
Toluene	0000100 00 0	0.10 1.0		[1][0]
CAS Number:	0000108-88-3	0.10 - 1.0	Flam. Liq. 2;H225	[1][2]
			Repr. 2;H361 Asp. Tox. 1;H304	
			STOT RE 2;H373	
			Skin Irrit. 2;H315	
			STOT SE 3;H336	[1][2]
Methyl methacry	vlate		010101010,11000	
CAS Number:		0.10 - 1.0	Flam. Liq. 2;H225	
			STOT SE 3;H335	
			Skin Irrit. 2;H315	
			Skin Sens. 1;H317	[1][2]
<b>-</b> 1	1 (1) Caroco	1		/

In accordance with paragraph (i) of \$1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

#### 4. FIRST-AID MEASURES

General	In all cases of doubt, or when symptoms persist, seek medical attention.
	Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give
	artificial respiration. If unconscious place in the recovery position and obtain immediate medical
	attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek
-	medical attention.



Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
 Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### Most important symptoms and effects, both acute and delayed

#### Overview

**INHALATION/INGESTION:** Solvent vapor or mist can cause headache, nausea, dizziness, uncoordination, stupor, irritation of nose, throat, lungs. Irritation of digestive tract. Nervous system depression (fatigue, drowsiness, dizziness.

**SKIN/EYES:** Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin.

Medical Conditions - Generally Aggravated by Exposure:

Copper/Zinc alloy powder - pre-existing skin disorders, respiration, liver, kidney & Wilson's disease.

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation	May cause drowsiness or dizziness.
Eyes	Causes serious eye irritation.
Skin	May cause an allergic skin reaction.

#### 5. FIRE-FIGHTING MEASURES

#### **Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO2, powder, water spray. Do not use: water jet.

#### Special hazards arising from the substance or mixture

Hazardous decomposition:

Hydrogren Gas, CuO, ZnO

Keep away from heat / sparks / open flames / hot surfaces - No smoking. Keep cool.

#### Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust / fume / gas / mist / vapors / spray.



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### Advice for fire-fighters

#### **Special Fire Fighting Procedures:**

Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH-approved or equiva lent) and full protective gear. Use water spray to cool containers. Do not use water on open flame. Dike fire area gently with fine, dry sand to extinguish fire. Do not use halogenated hydrocarbon extinguishing agents.

#### **Unusual Fire and Explosion Hazards:**

Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air. Avoid contact with water.

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### **Environmental precautions**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### Methods and material for containment and cleaning up

#### **Personal Precautions:**

Appropriate protective equipment must be worn for handling spill, see Section 8. If exposed to material, see Section 6.

#### **Environmental Precautions**:

Warning - Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

#### Waste Disposal Method:

Spill Clean up: Eliminate all ignition sources. Evacuate personnel to safe areas. Ventilate the area. Floor may be slippery, use caution. Soak up with inert absorbent material (Paper towel, sand, silica gel, sawdust). Avoid breathing vapor. Wear MSHA/NIOSH approved respirator. Note: Spills on porous surfaces can contaminate ground water.

#### NORMAL DISPOSAL:

#### Waste Classification:

Methyl Ethyl Ketone (78-93-3), 40 CFR 261.20-.24. For discard, this is classified as a hazardous waste with the characteristic of ignitability and toxicity. RCRA #D001. Reportable quantity is 100 lbs.(40 CFR 302) Incinerate liquid and contaminated solids in accordance with lo cal, state, and federal regulations. (See 40 CFR 268). For small quantity spills, allow solvent in paper towel to evaporate in well ventilated areas or outdoors (preferred).

CONTAMINATED PACKAGING: Empty containers should be taken for local recycling or waste disposal.



#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 2 for further details. - [Prevention]:

#### Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Water, acids, alkalis, chlorinated solvents

#### Precautions to Be Taken in Handling and Storing:

Limit storage of flammable material to approved areas. Keep properly ventilated. Ground all containers when transferring material. Store bottles away from heat. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed. Periodically clean neck of bottle of resin build up (clean inside of cap) to maintain proper seal. Do not smoke when using. Avoid storing near acids, chlorinated solvents. Add thinner as needed, to keep proper thinness of material.

#### **Other Precautions: Storage Temp:**

60C/140F min. STEL: 125 ppm MEK. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Emptied containers contain residue. Follow all MSDS and labels. Keep away from spark. See section 2 for further details. - [Storage]:

**Specific end use(s):** No data available.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Exposure		
CAS No. Ingredient	Source	Value
0000078-93-3 Butanone	OSHA	TWA 200 ppm (590 mg/m3)
	ACGIH	TWA: 50 ppm STEL: 100 ppm
	NIOSH	TWA 200 ppm (590 mg/m3) ST 300
		ppm (885 mg/m3)
	Supplier	No Established Limit
0000080-62-6 Methyl methacrylate	OSHA	TWA 100 ppm (410 mg/m3)
	ACGIH	TWA: 50 ppm STEL: 100 ppm S
	NIOSH	TWA 100 ppm (410 mg/m3)
	Supplier	No Established Limit
0000108-88-3 Toluene	OSHA	TWA 200 ppm C 300 ppm 500 ppm
		(10-minute maximum peak)STEL 150
		ppm
	ACGIH	TWA: 20 ppmR
	NIOSH	TWA 100 ppm (375 mg/m3) ST 150
		ppm (560 mg/m3)
	Supplier	No Established Limit



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Exposure

CAS No.	Ingredient	Source	Value
0007440-50-8	Copper	OSHA	TWA 1 mg/m3 [*Note: The PEL also applies to other copper compounds (as Cu) except copper fume.]
(dusts		ACGIH	TWA: 0.2 mg/m3 (fume) 1 mg/m3 and mists)
		NIOSH	TWA 1 mg/m3 [*Note: The REL also applies to other copper compounds (as Cu) except Copper fume.]
		Supplier	No Established Limit
0007440-66-6 Zir	nc powder (stabilized)	OSHA	No Established Limit
-		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

#### **Carcinogen** Data

CAS No.	Ingredient	Source	Value
0000078-93-3	Butanone	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No; Group 4: No;
0000080-62-6 Meth	yl methacrylate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: Yes; Group 4: No;
0000108-88-3 Tolue	ne	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: Yes; Group 4: No;
0007440-50-8 Copp	er	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No; Group 4: No;
0007440-66-6 Zinc powder (stabilized		OSHA	Select Carcinogen: No
<b>A</b>		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group
			2b: No; Group 3: No; Group 4: No;



<b>Exposure controls</b>	
Respiratory	If workers are exposed to concentrations above the exposure limit they must use the ap propriate, certified respirators.
Eyes	Chemical-resistant goggles
Skin	Use chemical-resistant apron or other impervious clothing, and rubber boots if necessary, to avoid contaminating regular clothing and shoes and to prevent skin contact. Chemical resistant gloves.
<b>Engineering Contro</b>	ls
	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

#### Other Work PracticesUse good personal hygiene practices.

Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### See section 2 for further details. - [Prevention]:

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Odor threshold pH Melting point / freezing point	Gold Liquid sweet/sharp odor Not determined Not Measured -86/-123 F initial
Initial boiling point and boiling range	e 80 C/176 F initial
Flash Point	-4 C/25 F (SFCC)
Evaporation rate (Ether $= 1$ )	> 1 (Butyl Acetate = 1)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or	
explosive limits	Lower Explosive Limit: 1.8 est
	Upper Explosive Limit: 11.5 est
Vapor pressure (Pa)	70 mmHg est. 20 C/68 F
Vapor Density	> 1
Specific Gravity	0.95 (H2O = 1)
Solubility in Water	Slight
Partition coefficient n-octanol/water	(Log Kow) Not Measured
Auto-ignition temperature	516 C/961 F
Decomposition temperature	Not Measured
Viscosity (cSt)	400 cPs max
% Volatile	> 65%



#### **10. STABILITY AND REACTIVITY**

Reactivity	Hazardous Polymerization will not occur.
Chemical stability	Stable under normal circumstances.
Possibility of hazardous rea	ctions No data available.
Conditions to avoid	Avoid contact with water, mineral acids, chlorinated solvents
Incompatible materials	Water, acids, alkalis, chlorinated solvents
Hazardous decomposition p	products
	Hydrogren Gas, CuO, ZnO

#### **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Copper dust and mists: Can cause irritation of eyes, mucous membranes, skin and respiratory tract.

Chronic overexposures: Can cause reduction in the number of red blood cells (anemia), skin abnormalities (pigmentation changes) and hair discoloration.

Copper fume: Can cause irritation of eyes, mucous membranes and respiratory tract.

Acute overexposures:Can cause nausea, fever, chills, shortness of breath and malaise (metal fume fever). Wilson's disease may be affected by copper exposure.

Ingredient	Oral LD50	Skin LD50	Inhalation	Inhalation	Inhalation
	mg/kg	mg/kg	Vapor LC50,	Dust/Mist	Gas LC50,
			mg/L/4hr	mg/L/4hr	ppm
Butanone - (78-93-3)	2,737.00,	6,480.00,	32.00, Mouse	No data	No data
Dutanone - (78-93-3)					NU Uala
	Rat-Cat. 5 Rabbit		Category: NA		
Category:NA					
Copper - (7440-50-8)	2,500.00,	>2,000.00, Rat	t No data	5.11, Rat	No data available
	Category 5	Category 5	No Data	Category:NA	No data available
Zinc powder (stabilized) -	0 .	0 1		0.	
(7440-66-6)	No data	No data	No data	No data	No data
Toluene - (108-88-3)	636.00,	8,400.00,	No data	No data	No data
	Rat Cat.: 4	Rabbit, Cat:N	A No data	No data	No data
Methyl methacrylate -		·			
(80-62-6)	5,000.00,	5,000.00,	29.80, Rat	No data	No data
· •	Rat, Cat. 5	Rabbit, Cat. 5	Rat, Cat. NA	No data	No data



Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization		Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity	2	Suspected of damaging the unborn child.
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

#### **12. ECOLOGICAL INFORMATION**

#### Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. No additional information provided for this product. See Section 3 for chemical specific data.

#### **Aquatic Ecotoxicity**

Data available upon request.

#### Persistence and degradability

There is no data available on the preparation itself.

#### **Bioaccumulative potential**

Not Measured

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### Other adverse effects

No data available.



"Products That Perform"

**13. DISPOSAL CONSIDERATIONS** 

Observe all federal, state and local regulations when disposing of this substance.

#### **14. TRANSPORT INFORMATION**

DOT (Domestic Surface Transportation) IMO / IMDG (Ocean Transportation) ICAO/IATA UN1993 UN number UN1993 UN1993 UN proper shipping name Flammable liquids, n.o.s., (Ethyl Methyl Ketone) Flammable liquids, n.o.s., (Ethyl Methyl Ketone) Flammable liquids, n.o.s., (Ethyl Methyl Ketone) DOT Hazard Class: 3 IMDG: 3 . Transport hazard class(es) Sub Class: Not Applicable Air Class: 3 Packing group II Π Π Environmental hazards IMDG Marine Pollutant: Yes (Zinc powder (stabilized)) Special precautions for user No further information

#### **15. REGULATORY INFORMATION**

Regulatory Overview T The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. Toxic Substance Control Act (TSCA)All components of this material are either listed or exempt from listing on the TSCA Inventory. WHMIS Classification B2 D2A US EPA Tier II Hazards Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No EPCRA 311/312 Chemicals and RQs (lbs): Butanone (5,000.00) Copper (5,000.00) Zinc powder (stabilized) (1,000.00) **EPCRA 302 Extremely Hazardous:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **EPCRA 313 Toxic Chemicals:** 



Copper Zinc powder (stabilized) **Proposition 65** - Carcinogens (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **Proposition 65** - Developmental Toxins (>0.0%): Toluene **Proposition 65** - Female Repro Toxins (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. **Proposition 65** - Male Repro Toxins (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. New Jersey RTK Substances (>1%): Butanone Copper Zinc powder (stabilized) Pennsylvania RTK Substances (>1%): Butanone Copper Zinc powder (stabilized) **16. OTHER INFORMATION** 

The full text of the phrases appearing in section 3 is:

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness and dizziness.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

#### DATE PREPARED: June 2015 SUPERSEDES MSDS: 2006

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