

# **SAFETY DATA SHEET**

**Issuing Date** 29 Oct 2021 **Revision Date** 29 Oct 2021 **ECR#** 27964

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS** product identifier

Product Name Tenure Adhesive, Part B

Other means of identification

UN-Number UN1993

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Dental bonding agent

Uses advised against No information available

Supplier's details

**Supplier Address** 

DenMat

1017 W. Central Ave. Lompoc, CA 93436 TEL: 805-346-3700

**Emergency telephone number** 

Emergency Telephone

Number

805-346-3700

# 2. HAZARDS IDENTIFICATION

# Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Flammable liquids	Category 2

# GHS Label elements, including precautionary statements

**Emergency Overview** 

Signal Word Hazard Statements Danger

Signal Word

Hazard Statements

- · Causes serious eye irritation
- · May cause drowsiness or dizziness
- Highly flammable liquid and vapor.



Appearance Clear to light yellow

Physical State Liquid.

Odor Aromatic solvent/acetone

#### **Precautionary Statements**

#### Prevention

- · Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- · Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep cool

#### **General Advice**

None

#### Eves

• 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

#### Skin

• IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### Inhalation

- If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell

# Fire

• In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

- Store in a well-ventilated place. Keep container tightly closed.
- · Store locked up.

#### **Disposal**

• Dispose of contents/container to an approved waste disposal plant.

### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

### Other information

Aspiration hazard if swallowed - can enter lungs and cause damage Harmful to aquatic life

<5% of the mixture consists of ingredient(s) of unknown toxicity.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Acetone	67-64-1	80-90	*
Bis[2-[(2-methyl-1-oxoallyl)oxy]ethyl] dihydrogen benzene-1,2,4,5-tetracarboxylate	51156-91-3	10-15	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### **Description of necessary first-aid measures**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult a physician.

**Skin Contact** Wash off with warm water and soap. Consult a physician if necessary.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing If not

breathing, give artificial respiration. Seek immediate medical attention/advice.

Ingestion Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage.

Call a physician or Poison Control Center immediately.

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

Most Important Symptoms/Effects Dizziness. Drowsiness.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Condition of the patient should be carefully monitored. Aspiration of this product during

induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

Contact a Poison Control Center for additional treatment information.

### 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

# **Specific Hazards Arising from the Chemical**

Extremely flammable.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge Yes.

### **Protective Equipment and Precautions for Firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

# **6. ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Avoid breathing vapors or mists. Remove all sources of

ignition. Take precautionary measures against static discharges. Do not get in eyes, on

skin, or on clothing. Wash thoroughly after handling.

### Environmental Precautions

#### **Tenure Adhesive Part B**

#### **Environmental Precautions**

Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

#### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Handling Ensure adequate ventilation. Avoid breathing vapors. Keep away from open flames, hot

> surfaces and sources of ignition. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

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

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Strong acids. Strong oxidizing agents.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

## **Exposure Guidelines**

ACGIH TLV	OSHA PEL	NIOSH IDLH
STEL: 750 ppm	TWA: 1000 ppm	IDLH: 2500 ppm 10% LEL
TWA: 500 ppm	TWA: 2400 mg/m <sup>3</sup>	TWA: 250 ppm
	(vacated) TWA: 750 ppm	TWA: 590 mg/m <sup>3</sup>
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N/D	N/D	N/D
	STEL: 750 ppm	STEL: 750 ppm TWA: 500 ppm TWA: 2400 mg/m³ (vacated) TWA: 1800 mg/m³ (vacated) STEL: 2400 mg/m³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm

#### Appropriate engineering controls

**Engineering Measures** Showers Eyewash

stations

Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection Skin and Body Protection Respiratory Protection** 

Safety glasses with side-shields. Tightly fitting safety goggles.

Long sleeved clothing. Impervious gloves.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in

accordance with current local regulations.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice. Remove and wash

contaminated clothing before re-use. Wash thoroughly after handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceClear to light yellow.OdorAromatic solvent/acetoneOdor ThresholdNo information available

Property Values Remarks/ - Method

Not determined None known рΗ Melting Point/Range Boiling Not determined None known Point/Boiling Range 55 - 60 °C None known -17 ° C **Flash Point** For acetone No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known

Flammability Limits in Air
upper flammability limit
No data available
No data available

Vapor PressureNo data availableNone knownVapor DensityNo data availableNone knownSpecific Gravity0.7 - 0.8 @ 25°CNone knownWater SolubilitysolubleNone knownSolubility in other solvents100% soluble in acetone and ethanolNone known

# Information on basic physical and chemical properties

Partition coefficient: n-octanol/waterNo data availableNone knownAutoignitionTemperatureNo data availableNone knownDecompositionTemperatureNo data availableNone knownViscositySimilar to waterNone known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) 82%

# 10. STABILITY AND REACTIVITY

#### Reactivity

No dangerous reaction known under conditions of normal use.

### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### **Conditions to avoid**

Ignitions sources - heat, sparks and open flames.

### Incompatible materials

Strong acids. Strong oxidizing agents.

# **Hazardous decomposition products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** The product itself has not been tested. Data is for major component in product. Inhalation

May cause drowsiness and dizziness based on components. May cause irritation of

respiratory tract.

**Eve Contact** Irritating to eyes.

**Skin Contact** May cause skin irritation and/or dermatitis.

Ingestion Potential for aspiration if swallowed. Vomiting may aspirate into lungs and cause chemical

pneumonia.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause drowsiness and dizziness. Eye contact with liquid may cause irritation including

stinging, burning, tearing, or reddening of the eyes.

# Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization No information available. **Mutagenic Effects** No information available.

Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed and

abused as an alcoholic beverage.

**Reproductive Toxicity** No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. **Target Organ Effects** Eyes. Respiratory system.

**Aspiration Hazard** Based on product level data, this product does not meet the requirement to be classified as

an aspiration hazard. However, this product contains an ingredient that may cause

aspiration if swallowed.

# Numerical measures of toxicity - Product

**Acute Toxicity** <5% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 7200 mg/kg; Acute toxicity estimate

Inhalation

dust/mist 1520.7 mg/L; Acute toxicity estimate

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to	Toxicity to Fish	Toxicity to	Daphnia Magna (Water Flea)
	Algae		Microorganisms	
Acetone 67-		LC50 96 h: 4.74 - 6.33 mL/L	EC50 = 14500 mg/L 15 min	EC50 48 h: 10294 - 17704
64-1		(Oncorhynchus mykiss) LC50 96 h:	_	mg/L Static (Daphnia magna) EC50
		6210 – 8120 mg/L static (Pimephales		48 h: 12600 -
		promelas) LC50 96 h: = 8300 mg/L		12700 mg/L (Daphnia
		(Lepomis macrochirus)		magna)

Persistence and Degradability No information available. Bioaccumulation No information available.

Chemical Name	Log Pow	
Acetone	-0.24	

#### **Other Adverse Effects**

No information available.

# 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** 

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone - 67-64-1		Included in waste stream:		U002
		F039		

# 14. TRANSPORT INFORMATION

DOT

UN-Number UN1993

**Proper shipping name** Flammable liquids, n.o.s.

Hazard Class 3
Packing Group II

**Description** UN1993, Flammable liquids, n.o.s. (Acetone), 3, II

**Emergency Response Guide Number** 

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**TDG** 

UN-Number UN1993

**Proper Shipping Name** Flammable liquid, n.o.s.

Hazard Class

Packing Group

**Description** UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

<u>MEX</u>

UN-Number UN1993

**Proper Shipping Name** Flammable liquid, n.o.s.

Hazard Class 3
Packing Group ||

**Description** UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

**IATA** 

UN-Number UN1993

Proper Shipping Name Flammable liquid, n.o.s.

Hazard Class 3
Packing Group II
ERG Code 3H

**Description** UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

IMDG/IMO

UN-Number UN1993

**Proper Shipping Name** Flammable liquid, n.o.s.

Hazard Class 3
Packing Group ||

EmS No. F-E, S-E

**Description** UN1993, Flammable liquid, n.o.s. (Acetone), 3, II, (-20°C c.c.)

# 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** 

All components of this product are either listed or are exempt on the TSCA inventory.

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Acetone	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

### U.S. State Regulations

### California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.



**WARNING:** Cancer and Reproductive Harm. www.P65Warnings.ca.gov

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Acetone	X	X	X		X

# U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

#### **Tenure Adhesive Part B**

16. OTHER INFORMATION						
NFPA Health Hazard 1 Flammability 3 Instability 0 Physical and Hazards						
<u>HMIS</u>	Health Hazard 2*	Flammability	Physical Hazard 0	Personal Protection X		

Issuing Date29 October 2021Revision Date29 October 2021

### **General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**