



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Triad Gel
Product Number: 88859, 88860, 88750, 88751, 88762
MSDS Code Number: 100

Manufacturer: Dentsply Prosthetics
Address: 570 West College Ave.
York, PA 17405-0872
Information Telephone Number: 717-845-7511
Emergency Telephone Number: 800-424-9300 Chemtrec
Email: Prosthetics_MSDS@Dentsply.com

Product Use: Resin used in removable dental appliances

Date of Last Revision: September 11, 2008

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! May cause eye and skin irritation. May cause skin sensitization.

EU Preparation Classification (1999/45/EC): Irritant (Xi) R36/38, R43

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Aliphatic Urethane Methacrylate	Proprietary	80-100	Xi R36/38, R43
Amorphous Precipitated Silica	112945-52-5/231-545-4	1-10	Not Applicable

See Section 16 for further information on EU Classification.

SECTION 4 FIRST AID MEASURES

Eye Contact: Immediately flush with water for 15 minutes. Get medical attention.

Skin Contact: Remove contaminated clothing. Wash with soap and water. If irritation develops and persists, get medical attention.

Ingestion: If swallowed, wash mouth with water. DO NOT induce vomiting. Get medical attention.

Inhalation: If irritation develops, remove to fresh air. Get medical attention if symptoms persist.

SECTION 5 FIRE FIGHTING PROCEDURES

Extinguishing Media: Use water fog, foam, carbon dioxide, water spray or dry chemical.

Firefighting Procedures: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water spray.

Unusual Fire/Explosion Hazards: High temperatures may cause a polymerizing reaction to occur. Closed containers may rupture or explode during runaway polymerization.

Known or Anticipated Hazardous Products of Combustion: Acrid smoke or fumes, carbon and nitrogen oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Exposure to sunlight or artificial light will cause the gel to polymerize into hard plastic. Spread the gel to maximize the surface area. Once the material is hard, pick up and place into a container for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Wash hands thoroughly before eating, drinking, smoking, or using the toilet facilities. Remove contaminated clothing and laundry before reuse. Keep out of the reach of children.

Storage: Store in a tightly closed container in a cool, well-ventilated location away from incompatible materials. Do not store near high temperatures or ignition sources. Prevent contact with moisture. Refrigeration prolongs shelf life. Store away from food or beverages.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits:

Aliphatic Urethane Methacrylate	None Established
Amorphous Precipitated Silica	3 mg/m ³ (respirable fraction) TWA ACGIH TLV 10 mg/m ³ (inhalable) TWA ACGIH TLV 5 mg/m ³ (respirable fraction) TWA OSHA PEL 15 mg/m ³ (total dust) TWA OSHA PEL

Engineering Controls: Good general ventilation is normally adequate. Use local exhaust ventilation when grinding polymerized (cured) material.

Personal Protective Equipment:

Eye Protection: Chemical safety glass or chemical splash goggles.

Skin Protection: Rubber gloves.

Respiratory Protection: None should be needed for normal use. If the product is heated and ventilation is inadequate, wear a NIOSH approved respirator appropriate for the level of exposure. For firefighting, use self-contained breathing apparatus.

Other Protective Clothing or Equipment: Clothing with long sleeves may be needed when working with large quantities.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear, red, blue, or pink viscous gel with a slight ester odor.

Boiling Point: N/A

Melting Point: N/A

Freezing Point: <-40°C (<-40°F)

Specific Gravity: 1.2

Solubility in Water: Negligible

pH: N/A

Vapor Pressure (mmHg): <1

Vapor Density: >1

Evaporation Rate: N/A

Viscosity: 90,000 cps @ 40°C (140°F)

% Volatile by Volume: Negligible

Flashpoint: N/A

Flammable Limits in Air: N/A

Autoignition Temperature: N/A

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid high temperatures and direct sunlight.

Incompatibility with Other Materials: Oxidizing agents, reducing agents, free radical imitators, inert gases and oxygen scavengers. Avoid excessive heat, flames, ignition sources and direct sunlight.

Hazardous Decomposition Products: Acrid fumes, carbon and nitrogen oxides.

Hazardous Polymerization: Will occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: May cause irritation with redness and tearing. Repeated contact may cause moderate irritation.

Skin: May cause irritation with redness and rash. Repeated contact may cause moderate irritation with redness and swelling. May cause allergic skin reaction or sensitization.

Ingestion: None expected under normal conditions of use.

Inhalation: None expected under normal conditions of use.

Chronic Health Effects: Repeated eye contact may cause moderate irritation. Repeated skin contact may cause moderate irritation with redness and swelling. May cause allergic skin reaction or sensitization

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC or NTP.

Medical Conditions Aggravated by Exposure: Individuals with chronic skin disorders may be at increased risk from exposure to this material.

Acute Toxicity Data:

Aliphatic Urethane No data available

Methacrylate:

Amorphous Precipitated Oral Rat LD50: >10,000 mg/kg

Silica: Inhalation Rat LC50: >0.139 mg/l/4 hrs (highest concentration – no deaths)

 Skin Rabbit LD50: >5,000 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

No data is currently available.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state, and local regulations. Exposure to sunlight or artificial light will cause the gel to polymerize into a hard plastic.

SECTION 14 TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated
DOT Hazard Class: Not Applicable
UN Number: Not Applicable
DOT Labels Required (49CFR172.101): Not Applicable

IATA Shipping Name: Not Regulated
IATA Hazard Class: Not Applicable
UN Number: Not Applicable
IATA Hazard Labels Required: Not Applicable

IMDG Shipping Name: Not Regulated
IMDG Class: Not Applicable
UN Number: Not Applicable
IMDG Label: Not Applicable

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: Acute Health, Chronic Health

Section 313 Toxic Chemicals: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: This product is a medical device and not subject to chemical notification requirements.

INTERNATIONAL REGULATIONS

Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.

Canadian WHMIS Classification: Medical devices are not subject to WHMIS.

European Community Labeling:

R36/38 Irritating to eyes and skin
R43 May cause sensitization by skin contact.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.

Irritant

EINECS: This product is a medical device and not subject to chemical notification requirements.

Australian Inventory of Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

Japanese Existing and New Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is a medical device and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

SECTION 16 OTHER INFORMATION

HMIS Hazard Rating:

Health – 2 Fire Hazard – 1 Reactivity – 1

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

Xi Irritant

R36/38 - Irritating to eyes and skin.

R43 – May cause sensitization by skin contact

Revision Date: 9/11/08

Supercedes: 12/12/05