



AMERICAN TOOTH INDUSTRIES

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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	Namilon Powder
Product Description	Methacrylate Homopolymer
Manufacturer	American Tooth Industries 1200 Stellar Drive Oxnard, CA 93033 805-487-9868 Emergency Phone Number: Infotrac: 800-352-5053
Recommended use	An internally pigmented, cross-linked methyl methacrylate resin for permanent crown and bridge restorations. It is ideal for quality, high strength, long term provisional cases such as implants and full mouth reconstructions. Namilon is to be used with the crown and bridge investment procedures, i.e. wax-up, investment, boil-out and packing. Because Namilon is internally pigmented, it will not streak, bleed or change color. Namilon features an extended working time, and once polymerized in heat it cures quickly. Restorations are durable, solvent and wear-resistant.
Restrictions on use	Industrial Use Only

2. HAZARDS IDENTIFICATION

Hazard classification	Physical, Health, Environmental Eye damage/irritation-Category 2B
Signal Word	Warning
Hazard Statements	H320 Causes eye irritation



Symbol

Precautionary statements

P240 Ground and bond container and receiving equipment
 P264 Wash hands and exposed skin thoroughly after handling
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.
 P337+P313 Get medical advice/attention.

Other hazards

N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Statement for unknown toxicity

N/A

Chemical name

Pigmented, Methacrylate Homopolymer

Common name/synonyms

Methacrylate Polymer

Impurities and stabilizing additives*

Chemical Name	Weight -%	CAS Number
Particulates, NOC	90-100	NE
Residual Monomer	1-5	N/A
Titanium Dioxide	1-5	13463-67-7

*Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

4. FIRST AID MEASURES**General Advice**

Provide the SDS to medical personnel for treatment.

Inhalation

Remove victim fresh air. Seek immediate medical attention.

Skin Contact

Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

Eye Contact

Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

Ingestion

Rif ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue

to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

Clothing

Remove contaminated clothing, wash thoroughly before reuse.

Most important symptoms or effects, both acute and delayed:

N/A

Indication of immediate medical attention and special treatment needed:

N/A

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water, chemical (alcohol-resistant) foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

Water may not be effective in extinguishing this fire.

Special hazards arising from substance

Polymer dust are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.

Special Firefighting Procedures

Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

Special protective equipment and Precautions for fire fighters

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static discharge, follow grounding and bounding procedures. Polymers are not sensitive to mechanical impacts.

6. ACCIDEDNTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in section 8. Keep airborne particulates at a minimum when cleaning up spills. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

Environmental precautions

Extinguish all ignition sources. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. US Regulation (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Methods and materials for containment and cleaning up

Prevent leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth). May contaminate water supply.

Methods for Cleaning Up

Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of product release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Not a RCRA hazardous waste.

7. HANDLING AND STORAGE**Handling**

Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping. Avoid prolonged contact with the product. Use in well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

Storage

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources or sources of intense heat. Storing above recommended temperature will cause product performance issues. Store in accordance with National Fire Protection Association recommendations. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

Storage temperature

The temperature should remain at or under 72°F (22°C) at all times.

Incompatible materials

Strong oxidizers, oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limits

N/A

ACGIH Threshold Limit Values

For polymer: NE. For decomposition product:
Methyl Methacrylate Monomer: 100 ppm. For
Titanium Dioxide: 5 mg/m³.

Other limitations recommended by manufacturer

For polymer: NE. For decomposition product:
Methyl Methacrylate Monomer: 100 ppm. For
Titanium Dioxide: 5 mg/m³.

Appropriate Engineering Controls

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personnel Protective Equipment (PPE)**Respiratory Protection**

A respirator should be worn whenever workplace conditions warrant use of a respirator. If dust conditions are present, a N95 respirator dust mask is required. None required if airborne concentrations are maintained below any exposure limit that may be listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

Eye/Face Protection

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

Skin and Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact:

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 480 min

Splash contact:

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 120 min

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Fine powder

Color

White

Odor

Faint

Odor Threshold

N/A

pH

N/A

Melting Point

N/A

Freezing Point

N/A

Initial Boiling Point

N/A

Boiling Range	N/A
Flash Point	304 °C, 579 °F
Evaporation Rate	N/A
Flammability (solid, gas)	N/A
Upper/Lower Flammability limits	N/A
Explosive Limits	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Relative Density	N/A
Solubility	In soluble in water.
Partition Coefficient: n-octano/water	N/A
Auto-ignition Temperature	NE
Decomposition Temperature	N/A
Viscosity	N/A

10. STABILITY AND REACTIVITY

Reactivity	N/A
Chemical Stability	Stable
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to avoid	Heating above 240 °C, 464 °F
Materials to avoid	Strong oxidizing agents
Hazardous Decomposition Products	Methacrylate Monomer and Oxides of Carbon when burned.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity Component Toxicity

Identify likely routes of exposure: Inhalation, Eye contact and Ingestion

Target Organs N/A

Effects of overexposure N/A

Product Components Listed as Carcinogenic

<u>CAS Number</u>	<u>Description</u>	<u>%Weight</u>	<u>Carcinogen Rating</u>
None			No data available

Carcinogenicity Titanium Dioxide is listed as a possible carcinogen by IARC. None of the other components of this material are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

Target Organs For polymer: None listed. For decomposition product: Methyl Methacrylate: Nose, Liver and Kidneys. For Titanium Dioxide: None listed.

Toxicity Data For Polymer: None. RTECS: TR0400000. TCSA: 1986. For decomposition product, Methyl Methacrylate Monomer: LD50 acute oral rat: 7990

mg/kg. LD50 acute dermal rabbit: 35,500 mg/kg. LC50 acute inhalation rat: >12,500 to 16,500 ppm for 0.5 hours. TLo inhalation human: 125 ppm. TLo inhalation human: 60 mg/m³. Human patch test: approximate one-third of subjects developed mild redness at the site of application. Twenty percent showed sensitivity when tested 10 days later.

Reproductive effects: TLo inhalation rat: 109 gm/m³/54 minutes, 6-15 days of pregnancy, TLo inhalation rat: 54 mg/m³/24 hours, 8 weeks of pregnancy. TLo inhalation ratL 4480 mg/m³/2 hours, 6-18 days pregnancy. RTECS: OZ50750000. TCSA: 1986. EINECS: listed.

For Titanium Dioxide: LD50 oral rat: >9000 mg/kg. RTECS: XR2275000. TCSA: 1986. EINECS: listed.

Effects of Over Exposure

For Polymer: OSHA classifies this material as Particulates, not otherwise classified. Eyes, Skin and Respiratory tract may be irritated by gross over exposure to Particulates, not otherwise classified, no matter how they are generated. Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation.

For decomposition product, Methacrylate Monomer: Liquid or high vapor concentration can irritate eyes, respiratory system and cause skin gait, confusion, drowsiness and unconsciousness. Repeated and prolonged over exposure may cause permanent brain and nervous system damage, allergic skin rashes, eye corrosion and permanent injury, as well as changes in liver and kidney function or damage.

For Titanium Dioxide: May cause temporary drying effect or irritation of mucous membranes. Although non-corrosive, non-irritating and non-sensitizing, it may have a drying effect on the skin. In contact with physiologically inert.

12. ECOLOGICAL INFORMATION (If available)

Aquatic Toxicity

For Methyl Methacrylate Monomer: Estimate of 96 Hours median threshold limit (TLm 96): 100-1000 ppm. Flathead minnows and goldfish TLm 24: 420 ppm. Bluegills TLm24: 368 ppm.

Component Ecotoxicity

13. DISPOSAL CONSIDERATIONS (If applicable)

Waste Treatment Methods

Disposal of Wastes

Dispose waste material in accordance with Federal, State, and local regulations. It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Waste disposal options include landfilling solids at permitted sites. Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Use registered transporters.

Contaminated Packaging

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and local regulations.

14. TRANSPORT INFORMATION (If applicable)

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Not Regulated, Polymer, NOS			
IATA	Not Regulated, Polymer, NOS			
IMDG	Not Regulated, Polymer, NOS			

15. REGULATORY INFORMATION (If available)

State of California Safe Drinking Water and Toxic Enforcement Act of 1986

(Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA 313

-None

US State Right-to-Know Regulations

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
	EINECS	Yes
	SARA Hazard categories	No
	TSCA Inventory	Yes

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

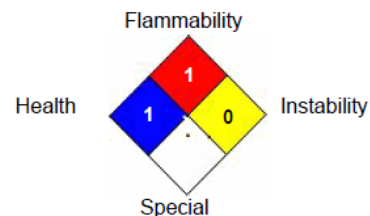
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



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