

| 1. Product and Company Identification | | | | | |
|---|---|---|--|---|-----------------------------------|
| Product Name: Avalon Biomed NeoSEALER® Flo, NeoSEALER® EZFlo, & NeoPUTTY® | | | SDS Code Number: SDS19 | | |
| Trade Name & Synonyms: NeoSEALER® Flo, NeoSEALER® EZFlo, NeoPUTTY® | | | Last Revision: 2 | | Effective Date: 01/05/2024 |
| Chemical Name: no name assigned to mixture | | | Manufactured by: NuSmile Ltd. | | |
| CAS. Number: None assigned | | | Address: 3315 W. 12 th Street Houston, TX 77008 USA Websites: www.avalonbiomed.com | | |
| Grades or Minor Variant Identities: none | | | Telephone Number: 713-861-0033; Int'l 1-800-346-5133 | | |
| Product Use (for Canada): Dental cement | | | e-mail: info@avalonbiomed.com | | |
| 2. Hazard Identification | | | | | |
| Emergency Overview: Dry paste may irritate throat and respiratory system and cause coughing. Frequent inhalation of dust from dry paste over a long period of time increase the risk of developing lung diseases. Paste may cause permanent eye damage if left untreated. Paste has an irritating effect on moist skin. Prolonged contact may cause burns. It is unlikely that exposure to small amounts for short periods, may have any irritant or toxic effect. | | | | | |
| Routes of Exposure | Signs and Symptoms | Single, Repeated, or Lifetime Exposure | Severity (Mild, Moderate, Severe) | Acute and Chronic Health Effect(s) of hazardous component | Target Organ(s) |
| Eye | Can cause eye immediate or delayed irritation of cornea. | Single | Mild | - | - |
| Skin | Exposure may cause drying of the skin with mild irritation. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure. | Single | Mild | Acute irritation to skin and mucous membranes. Can aggravate other skin conditions. | - |
| Inhalation | Exposure may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. | Single | Mild | Frequent inhalation of large quantities of dry paste, over a long period of time increases the risk of lung diseases. | Lung |
| Ingestion | Internal discomfort or ill effects are possible if large quantities are swallowed. | Single | Mild | Acute irritation | - |
| Other | - | - | - | - | - |
| Medical Conditions Aggravated by Exposure: Pre-existing upper respiratory and lung diseases may be aggravated by inhalation. | | | | | |
| Carcinogenicity (IARC, NTP): None known. Potential Environmental Effects: Powder with moisture hardens into a solid mass that is not biodegradable. | | | | | |
| 3. Composition of Ingredients | | | | | |
| Hazardous Components | | CAS. Number | Lowest Exposure Limits | | % |
| Ta ₂ O ₅ – Tantalite | | 1314-61-0 | No TLV assigned. | | <50 |
| 3CaO·SiO ₂ – Tricalcium Silicate | | 12168-85-3 | 4 mg/m ³ | | <25 |
| CaAl ₂ O ₄ – Calcium Aluminate | | 65997-16-2 | 3 mg/m ³ | | <25 |
| 2CaO·SiO ₂ – Dicalcium Silicate | | 10034-77-2 | 4 mg/m ³ | | <10 |
| CaAl ₄ O ₇ – Grossite | | 12004-88-5 | 3 mg/m ³ | | <6 |
| 3CaO·Al ₂ O ₃ – Tricalcium Aluminate | | 12042-78-3 | 10 mg/m ³ | | <1 |
| CaSO ₄ – Calcium Sulfate | | 7778-18-9 | 5 mg/m ³ | | <1 |
| 4. First Aid Measures | | | | | |
| Routes of Exposure | First Aid Instructions | Immediate Medical Attention | Effects | | |
| | | | Acute | Delayed | |
| Eye | Immediately flush eyes with plenty of water for 15 minutes, while holding eyelids apart. Remove contact lenses. Do not use eye ointments. | Get medical attention immediately, even if no symptoms develop. | - | - | |
| Skin | Immediately flush skin with plenty of cool soapy water. Remove contaminated clothing and wash contact areas thoroughly. Seek prompt medical attention. | Get medical attention. | - | - | |
| Inhalation | Move individual away from exposure into fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Keep patient warm. | Get medical attention. | - | - | |
| Ingestion | Seek prompt medical attention. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration. Never give anything by mouth to an unconscious or convulsing person. | Get medical attention. | - | - | |
| Other | Seek medical advice after large-scale (>25 gm) exposure. | - | - | - | |
| Note to Physicians (Treatment, Testing, and Monitoring): Treat symptomatically. | | | | | |
| 5. Fire and Explosion Data | | | | | |
| Flashpoint & Method: > 200 °C (open cup) | Flammable (Explosive) Limits in Air LEL/UEL: not applicable | Autoignition Temperature: 260°C | Other: Slight fire hazard. In case of combustion it may generate minor amounts of CO & CO ₂ . | | |
| Flame Propagation or Burning Rate (for solids): not applicable | Properties Contributing to fire Intensity: none | Flammability Classification: 1 | | | |
| Extinguishing Media: Water spray, alcohol resistant foam, carbon dioxide, or dry chemical. | | Extinguishing Media to Avoid: None | | | |

SAFETY DATA SHEET

Product Name: Avalon Biomed NeoSEALER® Flo, NeoSEALER® EZFlo, NeoPUTTY®

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| Protection and Procedures for Firefighters: Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool intact fire-exposed containers with water spray and remove them. | | |
| Unusual Fire and Explosion Hazards: Irritating fumes may be released by thermal decomposition which may be hazardous to health. A fire may produce thick black smoke. Fumes of silicon dioxide or carbon monoxide and carbon dioxide may be evolved from material in a fire. | | |
| 6. Accidental Release Measures | | |
| Containment Techniques: Discard in trash. Prevent any material from entering drains or waterways. | | |
| Spill/Leak Clean-Up Procedures and Equipment Wipe up spills with moist rags or vacuum immediately to prevent dust of material from being disperse, and discard in trash. Avoid skin contact and inhalation. Dispose of container and unused contents in accordance with federal, state, and local requirements. | | |
| Evacuation Procedures: N/E Special Instructions: N/E Reporting Requirements: N/E | | |
| 7. Handling and Storage | | |
| Handling Practices and Warnings: Paste is caustic. Keep out of eyes, lungs, or contact with mucosal tissues. After incidental contact, wash and rinse with water. Wear suitable gloves and protective glasses during use. Keep well sealed and free of contamination by pyrogens. Protect from humidity. Do not to contaminate with a contaminated instrument. Trained personnel use this product exclusively for dental purposes. | | |
| Storage Practices and Warnings: Store at temperatures at room temperature (25°C/77°F), not refrigerated. Keep container tightly closed; material is hydrophilic. Inadequate storage conditions will shorten the shelf life. | | |
| 8. Exposure Control/Personal Protection | | |
| Ventilation: Use in a well-ventilated area. | | Other Engineering Controls: None |
| Routes of Entry: | Personal Protective Equipment (PPE) for Normal Use: | PPE for Emergencies: |
| Eye/Face | Face mask & safety glasses | Safety glasses or face shield |
| Skin | Wear latex or nitrile gloves and avoid skin contact. | Gloves and Face shield |
| Inhalation | Face mask | Dust mask or respirator |
| General Hygiene Considerations and Work Practices: Wear gloves as per universal precautions in dentistry. Wash your hands after use. No eating, drinking, or smoking while handling this product. Remove and wash clothing with spills of material on clothing. | | |
| Protective Measures During Repair and Maintenance of Contaminated Equipment: Use water to remove dust. Use vinegar to dissolve hardened material. | | |
| Other Protective Measures and Equipment: N/E | | |
| 9. Physical and Chemical Characteristics | | |
| Appearance: Paste | | Odor: None |
| Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Paste (Other) | | Boiling Point not applicable; Melting Point: not applicable Freezing Point: ~12°C (55°F) |
| Specific Gravity or Density (H ₂ O=1):~2.5 | Solubility in Water: reacts & sets with water | pH: ~10-12 mixed with water |
| Vapor Pressure (mm Hg @ 20°C): ~0 | Vapor Density (AIR= 1): N/A | Evaporation Rate (Butyl Acetate = 1): N/A |
| 10. Stability and Reactivity Data | | |
| Incompatibility (Materials to Avoid): Keep dry to avoid reaction with moisture otherwise the product hardens into stable hydrates. | | |
| Hazardous Products Produced During Decomposition: carbon monoxide | | |
| Hazardous Polymerization: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur | Conditions to Avoid: Moisture will set the paste. | Stability: <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable |
| 11. Toxicological Information | | |
| Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Oral: LD50/rat = 22 g/kg, LD50/mouse = 36 g/kg. Dermal: LD50/rabbit = 20 ml/kg. No known carcinogenic, mutagenic or teratogenic activity. | | |
| 12. Ecological Information | | |
| Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements: Product is not expected to bioaccumulate in the environment. Minimally volatile. LC50, 24 h, Fresh Water Fish: > 5,000 mg/L. | | |
| 13. Disposal Considerations | | |
| Regulations: Dispose of container and unused contents in accordance with federal, state, and local requirements. Do not pour into drains or waterways. Wash the contaminated surface with water. | | |
| Properties (Physical/Chemical) Affecting Disposal: Do not spread dust. When mixed with water, a solid, non-biodegradable mass will form. | | |
| 14. Transport Information | | |
| Regulated for shipping: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Proper Shipping Name: Avalon Biomed NeoSEALER® Flo/NeoSEALER® EZFlo/NeoPUTTY® | Packing Group DOT class: NR |
| Do changes in quantity, packaging, or shipment method change product classification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Hazard Class: Non-hazardous | Identification Number: None Other: none |
| 15. Regulatory Information | | |
| Federal Regulations: Hazard code: Xn (irritant):Components are considered to be hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E - Corrosive Material) and subject to the requirements of WHMIS. <u>TSCA listed</u> | | |
| Risk phrases: R37/38 Irritating to respiratory system and skin. | R41 Risk of serious damage to eyes. | |
| Safety phrases: S22 Do not breathe dust. | S24 Avoid contact with skin. | |
| S25 Avoid contact with eyes. S26 In case of eye contact, rinse immediately with plenty of water and seek medical advice. | S36 Wear suitable protective clothing. | |
| S36 Wear suitable protective clothing. | S45. In case of accident, or if you feel unwell, seek medical advice immediately. | |
| 16. Other Information | | |
| This information is based on our present knowledge; however, this shall not constitute a guarantee for a specific product feature. No toxicity data are available for this specific formulation. This health hazard assessment is based on information that is available for its components. N/A= not applicable. N/D= not determined. N/E= not established. | | |