

SAFETY DATA SHEET

WEND Nanotech Overlay

<50% By Total Weight

SECTION 1: IDENTIFICATION

Product Name: Meadow Foam Plant Based Seed Wax

Manufacturer/Supplier: Wax Research Inc 1212 Distribution Way Vista, CA 92081

Telephone Number: 760-607-0850

SECTION 2: HAZARDS IDENTIFICATION

Classification: This product is not a hazardous substance or preparation according to EC directives 67/548/EEC and 1999/45/EC.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name / Description: Hydrogenated Seed Oil, Fatty acid triglyceride **CAS number:** 68334-28-1 **Classification:** This product is not a hazardous substance or preparation according to EC directives 67/548/EEC and 1999/45/EC.

SECTION 4: FIRST AID MEASURES

Skin contact: Wash with soap and water. If hot product, cool immediately under water and obtain medical attention. **Eye contact:** Rinse with water. Seek medical attention if there is irritation. **Ingestion:** Seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, carbon dioxide, dry chemical **Unsuitable extinguishing media:** Water **Special exposure hazards:** Hazardous decomposition products can be produced during combustion. See section 10. **Special protective equipment for fire-fighters:** Treat as an oil fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment including gloves and eye protection. **Environmental precautions:** Prevent entry into drains, sewers, or bodies of

water. **Methods for cleaning up:** Sweep up material thoroughly. Wash area with aqueous detergent solution to remove residual product. If material is spilled while liquid, extra care should be taken during cleanup. **Special indications:** Contaminated surfaces represent a slip hazard.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Employ good industrial and hygiene practice. **Conditions for safe storage:** Store in a cool, dry area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values: No components with exposure limit values **Personal protective equipment:**

- **Respiratory protection:** No special equipment required
- **Eye protection:** Safety glasses when material is hot or finely ground
- **Skin & hand protection:** Lightweight protective clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, white to light yellow **Odor:** Typical fatty odor **Melting point:** 70-72° C
Flash point: > 200° C **Water solubility:** Insoluble **Partition coefficient (n-octanol/water):** No data available

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: None known **Materials to avoid:** None known **Hazardous decomposition products:** None known

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity: No data available **Acute dermal toxicity:** No data available **Primary eye irritation:** No data available **Primary skin irritation:** No data available **Sensitization:** No data available

SECTION 12: ECOLOGICAL INFORMATION

Biodegradation: Expected to be readily biodegradable. **Ecotoxicity:** No adverse ecotoxic effects known

SECTION 13: DISPOSAL CONSIDERATIONS

Substance disposal: Dispose in accordance with all local, regional, and national regulations. **Contaminated packaging:** Dispose in accordance with all local, regional, and national regulations.

SECTION 14: TRANSPORT INFORMATION

Not subject to transport regulations

SECTION 15: REGULATORY INFORMATION

Chemical safety assessment: Not conducted **Classification under EC Directives 67/438/EEC & 1999/45/EC:** Not a hazardous substance or preparation.

Safety Data Sheet (SDS) Continued

>30% By Total Weight

Section 1: Identification

Product Name: Food Grade Paraffin Wax

Manufacturer/Supplier: Wax Research Inc 1212 Distribution Way Vista, CA 92081

Telephone Number: 760-607-0850

Section 2: Hazard(s) Identification

Physical State/Appearance: Solid **Hazardous Components:** None **Emergency Overview:** Non-toxic and non-hazardous.

Potential Acute Health Effects:

- **Eyes:** None.
- **Skin:** Dermatitis may occur with prolonged exposure.
- **Inhalation:** None.
- **Ingestion:** None.

NFPA Hazard ID:

- Health: 1
- Flammability: 1
- Reactivity: 0

Section 3: Composition/Information on Ingredients

Generic Name: Paraffin wax **Chemical Family:** Petroleum hydrocarbon **CAS Number:** 8002-74-2 **Molecular Formula:** N/A

Section 4: First-Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water. Seek medical attention.

Skin Contact: If molten, immerse affected area in cold water to assist cooling. Seek medical attention. Do not remove solidified wax from skin.

Note to Physician: Support respiratory and cardiovascular function.

Section 5: Fire-Fighting Measures

Flammability of Product: Combustible at high temperature **Products of Combustion:** Carbon oxides (CO, CO₂)

Fire Fighting Media and Instructions:

- **Small Fire:** Dry chemical powder
- **Large Fire:** Water spray, fog, or foam. Do not use water jet.
- **Protective Equipment:** Approved/certified respirator or equivalent
- **Specific Hazards:** Incomplete combustion produces fumes, flue gases, carbon monoxide
- **Additional Information:** Apply cold water to cool containers exposed to danger.

Section 6: Accidental Release Measures

Small Spill and Leak: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill and Leak: Use a shovel to put the material in a convenient waste disposal container.

Spill in Navigable Waters: Report spills of any amount in navigable waters or adjoining shorelines to: National Response Center, (800) 424-8802.

Section 7: Handling and Storage

Handling: Store solids in a cool, dry, well-ventilated area. Contact with any heat source may cause melting.

Storage: Liquid paraffin may also be stored in bulk storage tanks (170°–200°F).

Section 8: Exposure Controls/Personal Protection

Exposure Limits (Fumes):

- **ACGIH (United States, 2002):** TWA: 2mg/m³
- **NIOSH (United States, 2002):** TWA: 2mg/m³

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits. Molten wax should not be exposed to water, as it causes violent reactions.

Personal Protective Equipment:

- **Eyes:** Safety glasses or goggles. Face shields should be worn to protect eyes against hot wax splashes.
- **Body:** Full suit
- **Respiratory:** Approved dust respirator, or vapor respirator in areas of high concentrations of dust/vapor
- **Hands:** Heat-resistant gloves if working with molten wax
- **Feet:** Safety boots
- **In Case of Large Spill:** Splash goggles, full suit, boots, and gloves

Section 9: Physical and Chemical Properties

Color: Off-white to white solid (molten wax is clear) **Odor:** None **Flash Point (Closed Cup):** ≥455°F **Congearing Point:** Not specified **Density at 25°C:** 0.90 g/ml **Average Molecular Mass:** Not determined **Solubility in Water (20°C):** Negligible **Physical State:** Solid at ambient temperature **Explosion Properties:** Hazard exists if in sub-micron form (dust)

Section 10: Stability and Reactivity

Conditions to Avoid: Prolonged storage 50°C above congealing point may interfere with quality.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Flue gas, carbon monoxide, aldehydes in the case of incomplete combustion

Thermal Decomposition: Approx. 250°C

Section 11: Toxicological Information

NOEL (rat): 20 - 2000 mg/kg/day **Oral TDL 0 (rat):** > 2000 mg/kg/day

Section 12: Ecological Information

The product is water-insoluble, and under normal environmental conditions, has no detrimental effect on plants, animals, or micro-organisms. Keep away from waterways, sewers, drains, basements, and confined spaces.

Section 13: Disposal Considerations

Waste Information: Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Section 14: Transport Information

This product is not controlled under any of the following classifications: DOT (United States), TDG (Canada), IMDG, IATA.

Section 15: Regulatory Information

HCS Classification: Combustible **TSCA 8(b) Inventory:** Paraffin wax **Canadian DSL/NDSL:** Paraffin wax **SARA List:** Not found **California Prop 65:** None of the chemicals in this product are listed.

SAFETY DATA SHEET (SDS) Continued

<25% By Total Weight

Section 1: Identification

Product Name: NANO TECH Proprietary Blend

Note powder is suspended in solid wax sate***

Manufacturer/Supplier: Wax Research Inc 1212 Distribution Way Vista, CA 92081

Telephone Number: 760-607-0850

SECTION 2 - Hazard identification:

EMERGENCY OVERVIEW

These products are micronized powders. Static charges on the powders may ignite flammable atmospheres. High levels of product dust in the atmosphere may present a dust explosion hazard. (See Dust Hazard Reference in Section 16.)

SECTION 3 - Composition/information on ingredients:

Polyethylene CAS # 9002-88-4 Ceramic CAS # 66402-68-4

SECTION 4 - First-aid measures:

IF IN EYES: Immediately flush with copious amounts of water for at least 20 minutes. IF ON SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. IF INHALED: Treat as a nuisance dust. Remove victim to fresh air and provide oxygen if breathing is difficult. Immediate medical attention not normally required. No delayed effects expected. IF INGESTED: Do not induce vomiting; aspiration hazard. Dilute with 1-2 glasses of water. Get medical aid. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

SECTION 5 - Fire-fighting measures:

OSHA FLAMMABILITY CLASS: Combustible solid. SUITABLE EXTINGUISHING MEDIA: Carbon Dioxide, dry chemical or fine water spray. Avoid water stream on molten burning material as it may scatter and spread the fire. SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing approved by NIOSH. Watch footing on floors and stairs because of possible melting and spreading of material. Use spray to keep containers cool. UNUSUAL FIRE AND EXPLOSION HAZARDS: Flash point >450 F 232 C. Melts in proximity to fires, causing slippery floors and stairs. When powder is suspended in air, these products could be FLAMMABLE/EXPLOSIVE. In these circumstances, keep away from heat, sparks and open flames. Static charges on powders or powders in liquids may ignite flammable atmospheres. See Section 7 "HANDLING AND STORAGE" for suggestions on how to use these products under such conditions. Also refer to NFPA Bulletin 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries", for safe handling procedures.

SECTION 6 - Accidental release measures:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear recommended personal protective equipment. Remove ignition sources. Sweep up with a minimum of dusting. Keep away from heat or flame. Collect in containers (e.g. fiberboard drums or cartons). If hot liquid, attempt to confine spill and let the polymer solidify. Once solid, it may be recovered as the powder. Report major leaks and spills to the appropriate local, state and federal government agencies.

SECTION 7 - Handling and storage:

SPECIAL HANDLING AND STORAGE: (Always wear recommended personal protective equipment.) Avoid breathing fumes from heating operations. Avoid spillage which can cause very slippery conditions on floors. Use good personal hygiene and housekeeping.

SECTION 8 - Exposure controls/personal protection:

ENGINEERING CONTROLS: Use adequate ventilation during heating processes or if dusty conditions prevail when handling powdered materials. For storage and ordinary handling, general ventilation is adequate.

SECTION 9 - Physical and chemical properties:

Appearance : White powder

Odor : Typical wax odor

Odor threshold : Not applicable

Melting point : 109 - 115 °C

Boiling point : Not applicable

Flash point : >450 F 232 C COC

Micro Powders, Inc. SDS# PG-1226XF Page 4 of 6

Evaporation rate : Not applicable

Flammability : Combustible solid

Upper/lower flammability limits : 450°F TOC

Vapor pressure : Not applicable

Vapor density : Heavier than air

Relative density : 0.99 g/cc

Solubility : Not applicable

Partition coefficient : Unknown

Auto-ignition temperature : Unknown

Decomposition temperature : Unknown

Explosive properties : Not applicable

Oxidizing properties : Not applicable

Volatiles (weight percent) : Zero

SECTION 10 - Stability and reactivity:

STABILITY: Stable at normal conditions.

CONDITIONS TO AVOID: Extreme heat, sparks and open flame.

INCOMPATIBILITY (AVOID CONTACT WITH): Strong oxidizing agents and amines.

HAZARDOUS POLYMERIZATION: Should not occur.

HAZARDOUS DECOMPOSITION PRODUCTS AND/OR BY PRODUCTS:

These products may emit oxides of carbon.

SECTION 11 - Toxicological information:

Acute toxicity : No data developed.

Skin corrosion/irritation : No data developed. None expected.

Serious eye damage/irritation : No data developed. Treat as nuisance dust.

Respiratory or skin sensitization : No data developed. Treat as nuisance dust.

Germ cell mutagenicity : No data developed.

Carcinogenicity : N.T.P. CARCINOGEN: No

: I.A.R.C. CARCINOGEN: No

Reproductive toxicity : No.

STOST-single exposure : No data developed. Treat as nuisance dust.

STOST-repeated exposure : No data developed. Treat as nuisance dust.

Aspiration hazard : No data developed. Aspiration is possible.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May irritate people with skin problems,

asthma and lung diseases. Susceptible individuals may have an allergic reaction.

SECTION 12 - Ecological information:

ECOLOGICAL PROFILE: No data have been developed on this subject. These products are not soluble in water.

Potential environmental impact in case of spill or release is considered to be minimal.

SECTION 13 - Disposal considerations:

WASTE DISPOSAL METHOD: Assume conformity with applicable disposal regulations.

Preferred method of

disposal is in closed containers of sufficient strength to eliminate leakage at approved incineration or chemical

landfill waste disposal site in accordance with local regulations. Sewage disposal is discouraged.

RCRA: Is the unused product a RCRA hazardous waste if discarded? No.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing

with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

SECTION 14 - Transport information:

UN Number : Not classified as hazardous.

UN Proper shipping name : N/A

Transport hazard class : Not classified as hazardous.

Packing group : N/A

IATA : Not classified as hazardous

Environmental hazards : Not considered marine pollutant.

: Not considered environmentally hazardous.

Special precautions : Keep sealed and secure. Do not expose to heat.

DOT Classification : Non-Hazardous.

INCO Terms : EXW for Regulatory Purposes and Responsibilities

SECTION 15 - Regulatory information:

REACH: All substances registered.

This product and/or its components do not contain any chemicals subject to any rules or orders under TSCA sections 4,

5, 6, 7, or 8(d).

California Proposition 65: Not regulated.

WHMIS Classification (Canada): Not subject to WHMIS regulations.

SARA Section 311/312:

- Acute Health Hazard: No

- Chronic Health Hazard: No

- Fire Hazard: No

- Reactivity Hazard: No

- Sudden Release of Pressure Hazard: No

SARA Section 302: Contains an extremely hazardous substance: No

SARA Section 313: This product does not contain any toxic chemical listed under Sec.313 of the Emergency

Planning and Community Right-To-Know Act of 1986.

US. EPA CERCLA Hazardous Substances (40 CFR 302) - not regulated.

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5) - not regulated.

CLEAN WATER ACT - Priority Pollutants: Contains no known priority pollutants at concentrations greater than 0.1%.