MATERIAL SAFETY DATA SHEET

ELAN CHEMICAL COMPANY, INC

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1. Product /Company Identification

Product Name: NATURAL METHYL ANTHRANILATE

Manufacturer: Elan Chemical Co. Inc.
268 Doremus Ave.
Newark, NJ 07105
U.S.A.
Phone: (973)344-8014
Fax: (973)344-5880
Emergency: 800-424-9300 (Chemtrec)

2. Composition/Information on Ingredient

Synonyms: Natural Mandarin Pettigrain F.D.
CAS Number: 134-20-3
FEMA: 2682
Molecular Formula: C₈H₉O₂  Molecular Weight: 151.16

3. Hazards Identification

Emergency Overview:
Harmful by inhalation and if swallowed.
Irritant. Irritating to eyes, respiratory system and skin.
Caution: Target organs: Liver. Kidneys.

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<th>HMIS</th>
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<td>Flammability</td>
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<td>Reactivity</td>
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4. First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious.
Call a physician.

Inhalation Exposure: If inhaled, move to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Skin Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes

5. Fire Fighting Measures

Flammable Hazards: NO

Flash Point: 123°C

Extinguishing Material: Water Spray Carbon Dioxide Dry Chemical Powder Foam

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Fire Fighting Hazards: Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Personal Protection: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation.

Clean up Methods: Absorb on sand or vermiculite and hold for waste disposal. Ventilate area and wash spill site after clean up is complete.

7. Handling and Storage Procedures

Handling: Do not breathe vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage: Keep container tightly closed.

Special Requirements: Light sensitive.

8. Exposure Controls/ PPE

Respiratory: At a minimum, workers should wear a NIOSH-approved full-face air-purifying respirator.

Eyes: Chemical Safety goggles

Skin: Chemical resistant gloves.

Ventilation: Mechanical exhaust required.

General Hygiene Measures: Wash thoroughly after handling.
9. Physical/Chemical Properties

Appearance: Colorless to pale yellow liquid with bluish fluorescence
Odor: Grape-like odor
Boiling Point: 258-261 °C
Melting Point: 21 °C
Flash Point: 123 °C
Vapor Density: N/A
Specific Gravity: 1.161 – 1.169
Refractive Index: 1.582 – 1.584

10. Stability and Reactivity

Stability: Stable
Conditions of Instability: May decompose on exposure to light.
Materials to Avoid: Acids, Acid chlorides, Acid anhydrides, Chloroformates, Strong oxidizing agents, Strong bases.
Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides.

11. Toxicological Information

Exposure Effects:
Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. Ecological Information

No Data Available.

13. Disposal Considerations

Disposal: Dissolve or mix this material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with local, state, and federal regulations.

14. Transportation Information

Ground (DOT) & Air (IATA)
Proper shipping Name: None.
Non-hazardous

15. Regulatory Information
EU Classifications:
Symbol of Danger: Xi
Indication of Danger: Irritant
R: 36/37/38
Risk Statements: Irritating to eyes, respiratory system and skin.
S: 26 36
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classifications:
Indication of Danger: Irritant.
Risk Statements: Irritating to eyes, respiratory system and skin. Risk of serious damage to eyes.
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

SARA Listed: No
TSCA Inventory Item: Yes

16. Additional Information
This material safety data sheet is intended to meet the specific requirements of 29 CFR 1910.1200 and should be used accordingly. While the information has been obtained from sources believed to be accurate and reliable, no warranty, expressed or implied, can be made with regard to its completeness, correctness or accuracy. Any users or handlers of this product who are not under the direct control of Elan Chemical Co., Inc. are responsible for evaluating this information in light of their particular situation and are responsible for all losses, damages or expenses that result while this material is under their control. It is also the responsibility of the users and handlers to observe any and all laws and regulations (Federal, State and Local) concerning the transportation, use, handling, storage and disposal of this product.