ENGELHARD

**Material Safety Data Sheet**

**MSDS Code:** 9212GB

# Mearlin® Nu-Antique Gold

**Revision date:** 05/13/05 **Date Printed:** 05/13/05

| **NFPA Classification:** | | **HMIS Classification:** | |
|---|---|---|---|
| **Health:** | 0 | **Health:** | 0 |
| **Flammability:** | 0 | **Flammability:** | 0 |
| **Instability:** | 0 | **Physical Hazard:** | 0 |
| **Special Hazards:** | | **Personal Protection:** | E |

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Chemical Name:** Chemical Mixture

**Product Use:** Colorant.

**Supplier:** ENGELHARD CORPORATION
101 WOOD AVENUE
ISELIN, NJ 08830-0770
1-800-758-9567 FOR CUSTOMER SERVICE

For Chemical Emergency Call CHEMTREC (24 hours):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient<br>CAS Number | Weight in Percent (%) | Notes |
|---|---|---|
| Mica<br>12001-26-2 | 41.0 - 62.0 | None. |
| Titanium Dioxide<br>13463-67-7 | 24.0 - 36.0 | None. |
| Iron Oxide - Fe3O4<br>1317-61-9 | 13.0 - 17.0 | None. |
| Iron Oxide - Fe2O3<br>1309-37-1 | 1.0 - 6.0 | None. |

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:**

**Color:** Yellow Light Yellow Gray
**Form:** Powder
**Odor:** Odorless
**Flash Point, °C:** Not Applicable

**Most Important Hazards:** Prolonged or repeated exposure may cause lung damage.

**Potential Health Effects:**

**Inhalation:** May cause irritation of the respiratory tract. Prolonged or repeated exposure causes lung damage.

**Ingestion:** No adverse health effects are expected from swallowing.

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Dust may cause irritation and inflammation.

**Carcinogenicity:**

| Ingredient CAS Number | Weight in Percent (%) | NTP (Y/N) | IARC (See Notes) | OSHA (Y/N) | ACGIH (See Notes) |
|---|---|---|---|---|---|
| Mica 12001-26-2 | 41.0 - 62.0 | N | N | N | N |
| Titanium Dioxide 13463-67-7 | 24.0 - 36.0 | N | N3 | N | A4 |
| Iron Oxide - Fe3O4 1317-61-9 | 13.0 - 17.0 | N | N | N | N |
| Iron Oxide - Fe2O3 1309-37-1 | 1.0 - 6.0 | N | N | N | A4 |

Notes:
IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its carcinogenicity; N=Not studied or probably not carcinogenic.
ACGIH: A1=Confirmed human carcinogen; A2=Suspected human carcinogen; A3=Confirmed animal carcinogen; A4=Not classifiable as a human carcinogen; A5=Not suspected as a human carcinogen; N=Not studied.

**Chronic Health Hazards:** Prolonged or repeated exposure to dust may cause pulmonary problems.

**Aggravated Medical Conditions:** Pulmonary disorders. Allergies.

## 4. FIRST AID MEASURES

**Inhalation:** Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

**Ingestion:** If large quantities are ingested, seek medical advice. Not a hazard under normal use conditions.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation persists.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

## 5. FIRE FIGHTING MEASURES

**Flash Point, °C:** Not Applicable
**Autoignition Temperature, °C:** Not Applicable
**Lower Explosive Limit, %:** Not Applicable
**Upper Explosive Limit, %:** Not Applicable

**Extinguishing Media:** None - does not burn. Use extinguishing media appropriate for surrounding fire.

**Fire Fighting Procedures:** Positive pressure, self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Not a fire or explosion hazard.

## 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Scoop up or vacuum into a container for reclamation or disposal. Avoid dusting.

## 7. HANDLING AND STORAGE

- Store in cool dry place.
- Material may be slippery when wet.
- Avoid breathing dust.
- Wash thoroughly after handling.
- Avoid contact with eyes.
- Use only with adequate ventilation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredient CAS Number | Weight in Percent (%) | OSHA PEL | ACGIH TLV |
|---|---|---|---|
| Mica 12001-26-2 | 41.0 - 62.0 | 20 mppcf | 3 $mg/m^3$ (Respirable fraction) |
| Titanium Dioxide 13463-67-7 | 24.0 - 36.0 | 15 $mg/m^3$ (Total dust) | 10 $mg/m^3$ (Total dust) |
| Iron Oxide - Fe3O4 1317-61-9 | 13.0 - 17.0 | None Established | None Established |
| Iron Oxide - Fe2O3 1309-37-1 | 1.0 - 6.0 | 10 $mg/m^3$ (as Fe, total particulate) | 5 $mg/m^3$ (as Fe, dust & fume) |

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 2004 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, June 30, 1993.

**Personal Protective Equipment:** Safety glasses with side shields. Wear suitable gloves.

**Respiratory Protection:** Use a NIOSH/MSHA approved respirator as necessary to protect from: dust. If respiratory protection is used, follow all requirements for respiratory programs set forth in OSHA regulations (29 CFR 1910.134).

**Ventilation:** General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Powder
**Color:** Yellow Light Yellow Gray
**Odor:** Odorless

**Melting Point, °C:** Decomposes
**Density:** 3.3Kg/L

**Bulk Density:** 21.8 g/100 cc
**Specific Gravity:** 3.3
**Solubility (in water):** Insoluble
**pH:** 7.0-11.0 (4% H2O)

## 10. STABILITY AND REACTIVITY

**Stability Data:** Stable

**Conditions/Hazards to Avoid:** None known.

**Incompatibility (Materials to Avoid):** None known.

**Hazardous Decomposition Products:** None known.

**Polymerization:** Will not occur.

**Polymerization - Avoid:** None known.

## 11. TOXICOLOGICAL INFORMATION

**Information on Product:**
No data available.

**Information on Components:**

| Ingredient CAS Number | Weight in Percent (%) | Acute Toxicity - Oral | Acute Toxicity - Inhalation | Acute Toxicity - Dermal | Acute Toxicity - Other |
|---|---|---|---|---|---|
| Mica 12001-26-2 | 41.0 - 62.0 | Not Available | Not Available | Not Available | Not Available |
| Titanium Dioxide 13463-67-7 | 24.0 - 36.0 | > 5,000 mg/kg (rat) | Not Available | Not Available | Not Available |
| Iron Oxide - Fe3O4 1317-61-9 | 13.0 - 17.0 | Not Available | Not Available | Not Available | Not Available |
| Iron Oxide - Fe2O3 1309-37-1 | 1.0 - 6.0 | Not Available | Not Available | Not Available | Not Available |

## 12. ECOLOGICAL INFORMATION

**Information on Product:**
**Environmental Fate:** No data available.
**Ecotoxicological Information:** No data available.

## 13. DISPOSAL CONSIDERATIONS

**US EPA Waste Number:** Not Regulated

**Disposal of Waste Method:** This product, if disposed as received, is a non-hazardous waste. Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

## 14. TRANSPORT INFORMATION

**International Transport Regulations:**

**ICAO Class:** Not Regulated

**US Transportation Regulations:**

**DOT Classification:** Not Regulated

**Canadian Transportation of Dangerous Goods (TDG):**

**TDG Classification:** Not Regulated

## 15. REGULATORY INFORMATION

**International Inventories:**

**United States:** This product or its ingredients are listed on or compliant with the TSCA Inventory.
**Canada:** This product or its ingredients are listed on or compliant with the DSL.
**Europe:** This product or its ingredients are listed on or compliant with EINECS.
**Japan:** This product or its ingredients are listed on or compliant with MITI.
**Australia:** This product or its ingredients are listed on or compliant with AICS.
**Korea:** This product or its ingredients are listed on or compliant with the ECL.
**Philippines:** This product or its ingredients are listed on or compliant with PICCS.
**China:** This product or its ingredients are listed on or compliant with the IECSC.

**US Federal Regulations:**

| Ingredient<br>CAS Number | Weight in Percent (%) | Subject to SARA 313 Reporting |
|---|---|---|
| Mica<br>12001-26-2 | 41.0 - 62.0 | No |
| Titanium Dioxide<br>13463-67-7 | 24.0 - 36.0 | No |
| Iron Oxide - Fe3O4<br>1317-61-9 | 13.0 - 17.0 | No |
| Iron Oxide - Fe2O3<br>1309-37-1 | 1.0 - 6.0 | No |

**SARA 311/ 312 Hazard Categories:**
Acute Health Hazard

**CAA 602 Ozone Depleting Substances (ODS):**
This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

**VOC Content:** None

**US State Regulations:**

**VOC Content (CARB):** None

**Canadian Regulations:**
**WHMIS Classification:**
Not Regulated
This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations* .

## 16. OTHER INFORMATION

**Revision number:** 3

**Section(s) Revised in this Version:**
Section 1: Chemical Product and Company Identification
Section 6: Accidental Release Measures
Section 8: Exposure Controls/Personal Protection
Section 15: Regulatory Information

**Prepared By:** Engelhard Corporate Environmental Health & Safety Group

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Engelhard Corporation. License granted to make unlimited copies for internal use only. End of MSDS.....