

MSDS Code: 9262M

Mearlin® Micro Brass

Revision date: 04/06/06 Date Printed: 04/06/06

NFPA Classification:Health: 0
Flammability: 0
Instability: 0
Special Hazards:**HMIS Classification:**Health: 0
Flammability: 0
Physical Hazard: 0
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 SERVICEFor 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 CAS Number | Weight in Percent (%) | Notes |
|--|-----------------------|-------|
| Titanium Dioxide (Rutile) 1317-80-2 | 53.0 - 70.0 | None. |
| Mica 12001-26-2 | 24.0 - 45.0 | None. |
| Iron Oxide - Fe ₂ O ₃ 1309-37-1 | 2.0 - 6.0 | None. |

3. HAZARDS IDENTIFICATION**Emergency Overview:**Color: Gold
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) |
|--|--------------------------------------|----------------------|-----------------------------|-----------------------|------------------------------|
| Titanium Dioxide (Rutile) 1317-80-2 | 53.0 - 70.0 | N | N3 | N | N |
| Mica 12001-26-2 | 24.0 - 45.0 | N | N | N | N |
| Iron Oxide - Fe ₂ O ₃ 1309-37-1 | 2.0 - 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.

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 |
|--|-----------------------------|--|---|
| Titanium Dioxide (Rutile) 1317-80-2 | 53.0 - 70.0 | 10 mg/m ³ (Total dust) 5 mg/m ³ (Respirable dust) | 10 mg/m ³ (Total dust) |
| Mica 12001-26-2 | 24.0 - 45.0 | 20 mppcf | 3 mg/m ³ (Respirable fraction) |
| Iron Oxide - Fe ₂ O ₃ 1309-37-1 | 2.0 - 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 2005 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.

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: Gold
Odor: Odorless
Melting Point, °C: Decomposes
Density: 3.4Kg/L
Bulk Density: 30.2g/100 cc
Specific Gravity: 3.4
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 |
|--|-----------------------------|--------------------------|--------------------------------|----------------------------|---------------------------|
| Titanium Dioxide (Rutile) 1317-80-2 | 53.0 - 70.0 | Not Available | Not Available | Not Available | Not Available |
| Mica 12001-26-2 | 24.0 - 45.0 | Not Available | Not Available | Not Available | Not Available |
| Iron Oxide - Fe ₂ O ₃ 1309-37-1 | 2.0 - 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

IMO 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 CAS Number | Weight in Percent (%) | Subject to SARA 313 Reporting |
|--|-----------------------|-------------------------------|
| Titanium Dioxide (Rutile) 1317-80-2 | 53.0 - 70.0 | No |
| Mica 12001-26-2 | 24.0 - 45.0 | No |
| Iron Oxide - Fe ₂ O ₃ 1309-37-1 | 2.0 - 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:

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* .

Not Regulated

16. OTHER INFORMATION

Revision number: 3

Section(s) Revised in this Version:
Section 1: Chemical Product and Company Identification
Section 8: Exposure Controls/Personal Protection
Section 9: Physical and Chemical Properties
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.