

MSDS Code: A-9001

**PLATINUM**

Revision date: 12/31/2002

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15205

**NFPA Classification:**

Health: 1  
 Flammability: 1  
 Instability: 0  
 Special Hazards:

**HMIS Classification:**

Health: 1  
 Flammability: 1  
 Reactivity: 0  
 Personal Protection: B

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Chemical Name:** Platinum  
**Formula:** Pt  
**CAS No:** 7440-06-4  
**Product Use:** Not Specified.  
**Supplier:** ENGELHARD CORPORATION  
 700 BLAIR ROAD  
 CARTERET, NJ 07008  
 1-732-205-5720 (Customer Service)  
 1-732-205-5700 (24-Hour Emergency)

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**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Notes</u>
Platinum 7440-06-4	100	None.

**3. HAZARDS IDENTIFICATION**

**Color:** White  
**Form:** Metal  
**Odor:** Odorless

**Flash Point, °C:** Not Applicable

**Most Important Hazards:** Exposure to dust or fume may cause irritation of the respiratory tract. Exposure to dust or fume may cause irritation of eyes and skin. May cause an allergic skin reaction. Dust, powder and fume are flammable or explosive when exposed to heat or flame.

**Potential Health Effects:**

**Inhalation:** May cause irritation of the respiratory tract. May result in coughing, wheezing and difficulty breathing.

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

**Skin Contact:** May cause skin irritation. May cause an allergic skin reaction.

**Eye Contact:** May irritate eyes.

**Other Effects:** NOTE: The potential health effects described above only apply if dust or fume is formed.

**Carcinogenicity:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>NTP (Y/N)</u>	<u>IARC (See Notes)</u>	<u>OSHA (Y/N)</u>	<u>ACGIH (See Notes)</u>
Platinum 7440-06-4	100	N	N	N	N

**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:** None known.

**Aggravated Medical Conditions:** Pulmonary disorders. Dermal ailments.

**4. FIRST AID MEASURES**

**Inhalation:** Not a hazard under normal use conditions. If exposed to excessive levels of dust or fumes, move to fresh air and seek medical attention.

**Ingestion:** Procedures normally not needed. If large quantities are ingested, seek medical advice.

**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: Carbon dioxide. Foam. Dry chemical.

Do NOT use: Water.

Fire Fighting Procedures: Positive pressure, self-contained breathing apparatus. Wear full protective clothing.

Unusual Fire and Explosion Hazards: Dust, powder, and fume are flammable or explosive when exposed to heat or flame.

**6. ACCIDENTAL RELEASE MEASURES**

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

**7. HANDLING AND STORAGE**

Store in a cool, dry location away from incompatible materials.  
Avoid contact with heat, sparks, open flame and static discharge.  
Wash thoroughly after handling.  
Avoid breathing any dust, mist or fumes resulting from the use of this product.  
Avoid contact with eyes, skin and clothing.  
Do not eat, drink or smoke when using.  
Use with adequate ventilation.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Platinum 7440-06-4	100	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

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 2002 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, June 30, 1993.

**PEL TLV Notes:** Ingredient(s) are in a solid form. Not all exposure values may be applicable. The potential health effect statements may not be applicable. If dust, mist, vapor or fume is generated, then exposure limits and potential health effects statements will be applicable.

**Personal Protective Equipment:** Safety glasses with side shields. Wear suitable gloves.  
Wear clean, body-covering clothing.

**Respiratory Protection:** Use a NIOSH/MSHA approved respirator as necessary to protect from: dust or fume. 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

<b>Form:</b>	Metal
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Boiling Point, °C:</b>	3827
<b>Melting Point, °C:</b>	1772
<b>Solubility (in water):</b>	Insoluble.

#### 10. STABILITY AND REACTIVITY

<b>Stability Data:</b>	Stable at normal conditions.
<b>Conditions/Hazards to Avoid:</b>	Extreme heat.
<b>Incompatibility (Materials to Avoid):</b>	Acids or alkalis. Oxidizing agents. Halogens. At high temperatures, this material reacts with sulfur, phosphorous, hydrogen and peroxides.
<b>Hazardous Reactions:</b>	Contact with aqua regia will produce chlorine and/or oxides of nitrogen.
<b>Hazardous Decomposition Products:</b>	Metal oxide fumes.
<b>Polymerization:</b>	None anticipated.
<b>Polymerization - Avoid:</b>	None anticipated.

**11. TOXICOLOGICAL INFORMATION**

**Information on Product:**

No data available.

**Information on Components:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Acute Toxicity - Oral</u>	<u>Acute Toxicity - Inhalation</u>	<u>Acute Toxicity - Dermal</u>	<u>Acute Toxicity - Other</u>
Platinum 7440-06-4	100	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:** Federal, state and 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. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

**14. TRANSPORT INFORMATION**

**International Transport Regulations:**

**UN/PIN Number:** 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.

**US Federal Regulations:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
Platinum 7440-06-4	100	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):** Not Determined

**Canadian Regulations:**

**WHMIS Classification:**

Class D Division 2 Subdivision B

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:** 7

**Section(s) Revised in this Version:** Section 1: Chemical Product and Company Identification

**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.....