

MSDS Code: 790-230

**PL-4 PRO-LINE BURNT UMBER**

Revision Date: 07/24/2000

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**NFPA Classification:****Health:** 1  
**Flammability:** 0  
**Instability:** 0  
**Special Hazards:****HMIS Classification:****Health:** 2 \*  
**Flammability:** 0  
**Reactivity:** 0  
**Personal Protection:**

\* Indicates possible chronic health effects.

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Chemical Name:** Universal Dispersion Of C.I. Pigment Brown 7:x**Product Use:** Industrial pigment.**Supplier:** ENGELHARD CORPORATION  
SPECIALTY PIGMENTS & ADDITIVES  
101 WOOD AVENUE  
ISELIN, NJ 08830-0770  
1-732-205-6913 FOR CUSTOMER SERVICE  
1-502-775-7288 FOR ENVIRONMENT, HEALTH, AND SAFETYFor 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**

<b><u>Ingredient</u></b>	<b><u>Weight in Product (%)</u></b>	<b><u>Notes</u></b>
CI Pigment Brown 7 12713-03-0	25-40	None.
Diethylene Glycol 111-46-6	20-30	None.
Water 7732-18-5	15-20	None.
CI Pigment White 26	5-15	None.
CI Pigment Yellow 42	5-15	None.
Surfactant(s)	1-5	None.
Manganese Dioxide	1-5	None.

1313-13-9		
Lamp Black 1333-86-4	< 1	None.

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:**

**Color:** Brown  
**Form:** Liquid  
**Odor:** Odorless  
**Flash Point, °C:** Nonflammable

**Most Important Hazards:** May irritate eyes. MAY CAUSE EYE BURNS. Harmful by inhalation, by contact with skin and if swallowed. Chronic Overexposure Effects: Gastrointestinal system disorders. Central nervous system damage. May cause kidney damage. May result in dizziness and drowsiness. May cause neurological disturbances including muscle pain, spasms, hallucinations and uncontrollable behavior. May be fatal or cause blindness if swallowed. May cause cancer by inhalation.

**Potential Health Effects:**

**Inhalation:** Exposure to vapors or mists, generated at higher temperatures, may cause drowsiness and headache.

**Ingestion:** May cause tissue damage. May cause central nervous system effects. May cause liver and kidney damage. May be fatal or cause blindness if swallowed.

**Skin Contact:** Prolonged or repeated contact may cause skin irritation. May cause systemic toxicity through skin absorption.

**Eye Contact:** Causes eye irritation. May cause eye burns.

**Other Effects:** NOTE: Laboratory animal studies indicate that GLYCOL ETHERS may cause reproductive effects.  
 NOTE: Inhalation of vapor and/or mist may be significant if material is heated or agitated/sprayed.

**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>
CI Pigment Brown 7 12713-03-0	25-40	N	N	N	N
Diethylene Glycol 111-46-6	20-30	N	N	N	N
Water 7732-18-5	15-20	N	N	N	N
CI Pigment White 26	5-15	N	N3	N	A4
CI Pigment	5-15	N	N	N	N

Yellow 42					
Surfactant(s)	1-5	N	N	N	N
Manganese Dioxide 1313-13-9	1-5	N	N	N	N
Lamp Black 1333-86-4	< 1	N	Y2B	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.

**Carcinogenicity:** As a result of their re-evaluation of CARBON BLACK, the International Agency for Research on Cancer (IARC) has revised their classification from Group 3 (not classifiable as to human carcinogenicity) to Group 2B (possibly carcinogenic to humans). This decision was based on rat inhalation studies. The carbon black industry has updated epidemiology mortality studies of US carbon black workers, covering sixty years, which confirm lower than expected deaths from cancer for US workers. Therefore, the carbon black industry continues to believe that the available evidence indicates that carbon black is not carcinogenic to humans. \*NOTE: The primary route of potential human exposure is by the inhalation of respirable airborne particles. Since this material is in a liquid form, it is not expected to pose a cancer risk unless it is allowed to dry.

**Chronic Health Hazards:** Prolonged or repeated exposure may cause MANGANESE poisoning. It is a Parkinsonian-like syndrome characterized by anorexia, hypersomnia, loss of strength, spasms or pain in the muscles, possibly followed by uncontrollable behavior, hallucinations and confusion. Progression of the disease results in varied neurological manifestations such as disturbances of speech, vision, hearing, gait and balance; and tremors. (Parkinsonian) May cause liver and kidney damage. May cause respiratory ailments. Refer to Potential Health Effects.

**Aggravated Medical Conditions:** Kidney disorders. Liver disorders. Neurological ailments.

**4. FIRST AID MEASURES**

- Inhalation:** Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.
- Ingestion:** Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.
- Skin Contact:** Flush skin with large amounts of water. If irritation persists, get medical attention.
- 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:** Nonflammable  
**Autoignition Temperature, °C:** Not Determined  
**Lower Explosive Limit, %:** Not Determined  
**Upper Explosive Limit, %:** Not Determined

**Extinguishing Media:** Water. Carbon dioxide. Foam.

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

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

**6. ACCIDENTAL RELEASE MEASURES**

**Spill Procedures:** Contain spillage. Soak up spill using an absorbent. Scoop into a suitable container.

**7. HANDLING AND STORAGE**

Wash thoroughly after handling.  
 Keep away from food and feed products.  
 Keep container closed.  
 Keep from freezing.  
 Avoid breathing mist.  
 Avoid contact with eyes, skin and clothing.  
 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>
CI Pigment Brown 7 12713-03-0	25-40	10 mg/m3 (Total dust)	5 mg/m3
Diethylene Glycol 111-46-6	20-30	None Established	None Established
Water 7732-18-5	15-20	None Established	None Established
CI Pigment White 26	5-15	2 mg/m3 (Containing no asbestos fibers, respirable dust)	2 mg/m3 (Containing no asbestos fibers, respirable dust)

Cl Pigment Yellow 42	5-15	10 mg/m3 (as Fe, total particulate)	None Established
Surfactant(s)	1-5	None Established	None Established
Manganese Dioxide 1313-13-9	1-5	5 mg/m3 (as Mn) Ceiling	0.2 mg/m3 (as Mn)
Lamp Black 1333-86-4	< 1	3.5 mg/m3	3.5 mg/m3

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 2000 standards. All OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

**PEL TLV Notes:** NOTE: Ingredient(s) are in a liquid phase. Not all exposure values may be applicable.

**Personal Protective Equipment:** Chemical goggles; also wear a face shield if splashing hazard exists. Rubber or neoprene gloves.

**Respiratory Protection:** Use approved respiratory protection if exposure limits are exceeded, or overexposure is likely.

**Ventilation:** General ventilation. Local exhaust ventilation as necessary to control dust, mist, vapor or fumes.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Liquid  
**Color:** Brown  
**Odor:** Odorless

**Vapor Pressure:** **Max:** 17.5mm Hg at 20 °C  
**Specific Gravity:** **Min:** 1 **Max:** 2  
**Evaporation Rate:** Much < 1  
**Solubility (in water):** Dispersible  
**pH:** **Min:** 7.5 **Max:** 9.5

### 10. STABILITY AND REACTIVITY

**Stability Data:** Stable

**Conditions/Hazards to Avoid:** None anticipated

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

**Hazardous Decomposition Products:** None anticipated

**Polymerization:** None anticipated.

**Polymerization - Avoid:** None anticipated.

**11. TOXICOLOGICAL INFORMATION**

**Information on Product:**  
**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>
CI Pigment Brown 7 12713-03-0	25-40	Not Available	Not Available	Not Available	Not Available
Diethylene Glycol 111-46-6	20-30	21,000 mg (rat)	Not Available	Not Available	Not Available
Water 7732-18-5	15-20	Not Available	Not Available	Not Available	Not Available
CI Pigment White 26	5-15	Not Available	Not Available	Not Available	Not Available
CI Pigment Yellow 42	5-15	>10,000 mg/kg (rat)	Not Available	Not Available	Not Available
Surfactant(s)	1-5	Not Available	Not Available	Not Available	Not Available
Manganese Dioxide 1313-13-9	1-5	Not Available	Not Available	Not Available	422 mg/kg subcutaneous (mouse)
Lamp Black 1333-86-4	< 1	Not Available	Not Available	Not Available	120 mg/kg intravenous (rat)

**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:**  
**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:** Not Determined

**Europe:** Not Determined

**Japan:** Not Determined

**Australia:** Not Determined

**Korea:** Not Determined

**US Federal Regulations:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
CI Pigment Brown 7 12713-03-0	25-40	No
Diethylene Glycol 111-46-6	20-30	No
Water 7732-18-5	15-20	No
CI Pigment White 26	5-15	No
CI Pigment Yellow 42	5-15	No
Surfactant(s)	1-5	No
Manganese Dioxide 1313-13-9	1-5	Yes
Lamp Black 1333-86-4	< 1	No

**SARA 311/ 312 Hazard Categories:**

Acute Health Hazard                      Chronic 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:** 390 g/L

**US State Regulations:**

**VOC Content (CARB):** 525

**Canadian Regulations:**

**WHMIS Classification:**

Class D Division 2 Subdivision A

Class D Division 2 Subdivision B

**16. OTHER INFORMATION**

**Revision number:** 14

**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.....