Material Safety Data Sheet

Plasmaterials, Inc.- 2268 Research Drive-Livermore, CA 94550
Ph: 925-447-4030  Fx: 925-447-4031
Emergency Phone Numbers:
CHEMTREC: 800-424-9300
POISON CENTER: 800-562-8236

*****************************************************************
Section 1:
Product Identification

Chemical Name(s) and Synonym(s): Nickel Oxide      Formula: NiO
Chemical Family: Metal Oxide
*****************************************************************

Section 2:
Ingredients/Summary of Hazards

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>%</th>
<th>TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel Oxide</td>
<td>1313-99-1</td>
<td>100%</td>
<td>0.2mg/m³</td>
<td>1.0mg/m³</td>
</tr>
</tbody>
</table>

*****************************************************************
Section 3:
Physical Data

Boiling Point (°C):     N/ A
Vapor Pressure:         N/ A
Evaporation Rate:       N/ A
Solubility w/ Water:    Insoluble

Appearance/Odor:        Black & Odorless

*****************************************************************
Section 4:
Fire and Explosion Hazard Data

Flashpoint/Method:      N/ A
Auto ignition Temp (°C): N/ A
Inflammability:         N/ A

Special Fire Fighting Procedures: Use firefighting measures that suit the surrounding fire. Do not use water or carbon dioxide as extinguishing agent.

Usual Fire and Explosion Hazards: None Known

*****************************************************************
Section 5:
Health Hazard Data
Toxicity Data: nontoxic  
Route(s) of Entry: Inhalation, Skin, & Ingestion  

**Effects of Overexposure (acute and chronic)**  

**Inhalation:** May cause irritation to the nose, throat and mucous membranes.  
**Dermal/ Eye Contact:** May be irritating.  
**Ingestion:** Considered to be non-toxic due to poor absorption.  
**Medical Conditions generally aggravated by exposure:** None.  

**Emergency and First Aid Procedures:**  

**Ingestion:** Induce vomiting, contact physician.  
**Inhalation:** Remove to fresh air. Administer oxygen and contact physician.  
**Skin:** Brush material off skin and wash affected area with soap and water.  
**Eyes:** Irrigate with water for 15 minutes.  

**********************************************************************  
 Section 6:  
 Reactivity Data  

**Stability:** (x) stable  
( ) unstable  
**Conditions Contributing to instability:** None  
**Incompatibility (materials to avoid):** None  
**Hazardous Decomposition Products:** None  
**Hazardous Polymerization:** Will not occur  
**Conditions to Avoid:** None Known  

**********************************************************************  
 Section 7:  
 Spill or Leak Procedures  

**Steps to be taken in case material is released or spilled:** Wearing full protective clothing, isolate the area and insure proper ventilation. Vacuum up spill and place in container for proper disposal.  
**Waste Disposal Method:** In accordance with regulations.  

**********************************************************************  
 Section 8  

**Special Protective Information**  

**Respiratory Protection:** (specify type) NIOSH/MSHA approved respirator  
**Protective Gloves:** Recommended  
**Eye Protection:** Safety glasses with side shields  
**Other Protective Equip:** Maintain sink, safety shower and eyewash fountain in work area. Wear full protective clothing at all times.
Section 9
Special Precautions and Transportation Regulations

Precautions to be taken in handling and storing: Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly after handling and before eating.

Transportation Requirements: Non hazardous by D.O.T. regulations.
DOT Class:
UN Number:
IMCO Class:
Other:

N/D = Do Data Found       N/A = Not Applicable

Revised: 08/08/05