

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): Iron Oxide **Formula:** Fe₂O₃

Chemical Family: Metal Oxide

Section 2:

Ingredients/Summary of Hazards

<u>Ingredient(s)</u>	<u>CAS #</u>	<u>%</u>	<u>TLV</u>	<u>OSHA PEL</u>
Iron Oxide	1309-37-1	100	5mgFe/m ³	10mgFe/m ³

Section 3:

Physical Data

Boiling Point (°C): **N/D**

Vapor Pressure: **N/A**

% Volatile by Volume: **N/A**

Evaporation Rate: **N/A**

Melting Point (°C): **1565°C**

Solubility w/ Water: **Insoluble**

Appearance/Odor: **Reddish brown powder, no odor.**

Physical State: **Solid**

Section 4:

Fire and Explosion Hazard Data

Flashpoint/Method: **N/A**

Auto ignition Temp (°C): **N/A**

Flammability: **Non flammable**

Extinguishing Media: Water Foam Class D Extinguisher

Dry Chemical CO₂ Other

Usual Fire and Explosion Hazards: **Unknown**

**Section 5:
Health Hazard Data**

Stability: Stable

Conditions to Avoid: Iron Oxide fumes

Incompatibilities: Reacts violently with Al, N₂H₄ and Ethylene Oxide.

Hazardous Decomposition Products: Toxic fumes.

Effects of Overexposure (acute and chronic)

Inhalation: Unknown

Dermal/Eye Contact: Unknown

Ingestion: Unknown

Skin: Remove contaminated clothing, flood skin with large amounts of water.

Eyes: May cause irritation, flush with water.

**Section 6:
Spill or Leak Procedures**

Steps to be taken in case material is released or spilled: Wearing appropriate respiratory and protective clothing. Isolate the spill area, provide proper ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a container for proper disposal. Take care not to raise dust. Use non-sparking tools.

Waste Disposal Method: In accordance with state, local and federal regulations.

**Section 8
Special Protective Information**

Respiratory Protection: (specify type) NIOSH approved respirator.

Ventilation: Local Exhaust: Recommended

Protective Gloves: Impervious gloves

Eye Protection: Safety glasses

**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.

N/D = Do Data Found

N/A= Not Applicable

Revised: 01/07/05