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SAFETY DATA SHEET

Section 1- IDENTIFICATION

COMPOSITION	PRODUCT NAME
Nd	**Neodymium**

SUPPLIER:	RECOMMENDED USE:	EMERGENCY TELEPHONE NUMBERS
Plasmaterials, Inc. **1270-B Quarry Lane** **Pleasanton, CA 94566** **Ph: 925-447-4030**	**Laboratory Chemicals** **Scientific Research**	**US: 001-800-424-9300** **Europe: 001-703-527-3887**

Section 2- HAZARD(S) IDENTIFICATION

Physical Hazards: Not Classified	**Health Hazards:** **-Skin Irritation:** Category 2 (H315) **-Eye Irritation:** Category 2A (H319) **-Specific Target Organ Toxicity – Single Exposure (Respiratory System):** Category 3 (H335)
Environmental Hazards: Not Classified	**OSHA Defined Hazards:** Not Classified

LABEL ELEMENTS: Signal Word: Warning

HAZARD STATEMENTS

-H315: Causes skin irritation.
-H319: Causes serious eye irritation
-H335: May cause respiratory irritation

PRECAUTIONARY STATEMENTS

-P261: Avoid breathing dust/fume/gas/mist/vapors/spray
-P264: Wash face, hands, and any exposed skin thoroughly after handling
-P271: Use only outdoors or in a well-ventilated area
-P280: Wear protective gloves/protective clothing/eye protection/face protection
-P302+P352: In on skin: wash with plenty of water
-P304+P340+P312: If inhaled: remove victim to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
-P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
-P332+P313: If skin irritation occurs: Get medical advice/attention.
-P337+P313: If eye irritation persists: Get medical advice/attention.
-P362+P364: Take off contaminated clothing and wash it before reuse.
-P403+P233: Store in a well-ventilated place. Keep container tightly closed.
-P405: Store locked up.
-P501: Dispose of contents/container in accordance with local/regional/national/international regulations

Hazards not otherwise classified (HNOC):

-None identified.

Section 3- COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS-No	Weight %
Neodymium	**7440-00-8**	**<=100**

Section 4- FIRST AID MEASURES

GENERAL ADVICE: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation: Remove victim from exposure to fresh air. Give oxygen if breathing is difficult. If not breathing, give artificial respiration. Consult a physician if symptoms develop and/or persist.
Skin Contact: Wash off with soap and water. Consult a physician if irritation develops and/or persists.
Eye Contact: Flush eyes with plenty of water, lifting upper and lower lids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and/or persists.
Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Most Important Symptoms/Effects: Direct contact with eyes may cause temporary irritation.
Indication of any Immediate Medical Attention and Special Treatment Needed: Treat symptomatically.

Section 5- FIREFIGHTING MEASURES

Suitable Extinguishing Media:	**Unsuitable Extinguishing Media:**
Water Fog, Alcohol-Resistant Foam, Dry Chemical Powder, Carbon Dioxide (CO2)	Do not use water jet as an extinguisher, as this will spread fire.

Specific Hazards Arising from the Chemical: During fire, gases hazardous to health may be formed.

General Fire Hazards: No unusual fire or explosion hazards noted.

Protective Equipment & Precautions for Firefighters: As in any fire, Firefighters must wear full face, self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

Specific Methods: Use water spray to cool unopened containers. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unnecessary personnel away. Wear protective gloves/protective clothing/eye protection/face protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personnel protection see Section 8.

Environmental Precautions: Avoid discharge into drains, water courses, or onto the ground.

Methods for Containment & Clean Up: Stop the flow of material if this is without risk. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. For waste disposal see Section 13 of SDS.

Section 7- HANDLING AND STORAGE

Handling: Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Observe good industrial hygiene practices.

Storage: Store in original tightly closed container in a dry, well-ventilated place. Store away from incompatible materials (see Section 10 of SDS).

Section 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:
Occupational Exposure Limits: No PEL, TLV, or other recommended exposure limit values noted for substance

Biological Limit Values: No biological exposure limits noted for the substance

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Follow standard monitoring procedures.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. When using do not smoke, eat, or drink. Keep away from food and drink. Wash thoroughly after handling and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses with side shields or goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and Body Protection: Handle with chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Wear suitable protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal Hazards: Wear appropriate thermal protective clothing when necessary.

Section 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Odor: No information available
Odor Threshold: No information available
pH: No information available
Melting Point/Range: 1,021°C / 1,870°F
Boiling Point/Range: 3,074°C / 5,565°F
Flash Point: No information available
Evaporation Rate: No information available
Flammability (solid, gas): No information available
Flammability or Explosive Limits:
Upper: No information available
Lower: No information available
Vapor Pressure: No information available
Vapor Density: No information available
Relative Density: 7.000 g/cm3
Solubility (water): No information available
Partition coefficient; n-octanol/water: No information available
Auto Ignition Temperature: No information available
Decomposition Temperature: No information available
Viscosity: No information available
Explosive Properties: No information available
Oxidizing Properties: No information available
Molecular Weight: 144.24 g/mol

Section 10- STABILITY AND REACTIVITY

Reactive Hazard: Stable and non-reactive under normal conditions of use, storage, and transport.

Stability: Stable under normal conditions.

Conditions to Avoid: Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents, Strong acids, Nitrogen, Phosphorous acid, Halogens

Hazardous Decomposition Products: Neodymium Oxides.

Hazardous Polymerization: No information available

Hazardous Reactions: No information available

Section 11- TOXICOLOGICAL INFORMATION

Information on likely Routes of Exposure:

Inhalation: No information available
Skin Contact: No information available
Eye Contact: Direct contact with eyes may cause temporary irritation.
Ingestion: Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

Information on Toxicological Effects:

Acute Toxicity: No information available
Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation
Serious eye damage/irritation: Direct contact with eyes may cause temporary irritation
Respiratory or Skin Sensitization: No information available
Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
Germ Cell Mutagenicity: No information available
Reproductive Toxicity: No information available
Development Effects: No information available
Specific Target Organ Toxicity – single exposure: May cause respiratory irritation
Specific Target Organ Toxicity – repeated exposure: No information available
Aspiration Hazard: No information available
Chronic Effects: No information available
-To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Section 12- ECOLOGICAL INFORMATION

Toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and Degradability: No information available
Bioaccumulation/Accumulation: No information available
Mobility in Soil: No information available
Other Adverse Effects: No information available.

Section 13- DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Collect and reclaim or dispose in sealed containers to a licensed waste disposal site. Dispose of contaminated packaging as unused product. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14- TRANSPORT INFORMATION

DOT: Not regulated as dangerous goods

IATA: Not regulated as dangerous goods

IMDG/IMO: Not regulated as dangerous goods

Section 15- REGULATORY INFORMATION

US Federal Regulations: This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt.D): Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not Listed
CERCLA Hazardous Substance List (40 CFR 302.4): Not Listed
SARA Hazard Categories:

Immediate Hazard: No
Delayed Hazard: No

Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

SARA 302 Extremely Hazardous Substance: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 304 Emergency Release Notification: Not regulated
SARA 311/312 Hazardous Chemical: Acute Health Hazard
SARA 313 (TRI Reporting): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated
Safe Drinking Water Act (SDWA): Not regulated
US California Proposition 65: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
US Pennsylvania Right-To-Know Components: Neodymium (CAS-No: 7440-00-8)

Section 16- OTHER INFORMATION

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change, the conditions of handling and use, or misuse are beyond our control, Plasmaterials, Inc. makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Users should satisfy themselves that they have all current data relevant to their particular use.

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