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## SAFETY DATA SHEET

| Section 1- IDENTIFICATION  |   |   |
|--|---|---|
| COMPOSITION<br><b>SrN</b>  |   | PRODUCT NAME<br><b>Strontium Nitride</b>  |
| SUPPLIER:<br><b>Plasmaterials, Inc.<br/>2268 Research Drive<br/>Livermore, CA 94550<br/>Ph: 925-447-4030</b> | RECOMMENDED USE:<br><b>Laboratory Chemicals<br/>Scientific Research</b> | EMERGENCY TELEPHONE NUMBERS<br><b>US: 001-800-424-9300<br/>Europe: 001-703-527-3887</b> |

| Section 2- HAZARD(S) IDENTIFICATION  |   |
|--|---|
| <b>Physical Hazards:</b> Substances and mixtures which, in contact with water, emit flammable gases (Category 2) H261                        |   |
| <b>Health Hazards:</b> Not Classified  |   |
| <b>Environmental Hazards:</b> Not Classified   | <b>OSHA Defined Hazards:</b> Not Classified |
| <b>LABEL ELEMENTS: Signal Word: Danger</b>   |   |
|    |   |
| <b>HAZARD STATEMENTS</b>   |   |
| -H261: In contact with water releases flammable gases  |   |
| <b>PRECAUTIONARY STATEMENTS</b>  |   |
| -P223: Do not allow contact with water. Keep away from any possible contact with water, because of violent reaction and possible flash fire. |   |
| -P231+P232: Handle under inert gas. Protect from moisture.   |   |
| -P280: Wear protective gloves, eye protection, face protection and protective clothing.  |   |
| -P335: Brush off loose particles from skin   |   |
| -P334: Immerse in cool water/wrap in wet bandages  |   |
| -P370+P378: In case of fire: Use appropriate media to extinguish   |   |
| -P402: Store in a dry place  |   |
| -P404: Store in a closed container   |   |
| -P501: Dispose of contents/container to an approved waste disposal plant   |   |
| <b>Hazards not otherwise classified (HNOC):</b>  |   |
| -None identified.  |   |

| Section 3- COMPOSITION/INFORMATION ON INGREDIENTS |                   |                         |
|---|-------------------|-------------------------|
| <b>COMPONENT</b>                                  | <b>CAS-No</b>     | <b>Molecular Weight</b> |
| <b>Strontium Nitride</b>                          | <b>11074-66-1</b> | <b>290.87 g/mol</b>     |

## 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 or persist.

**Skin Contact:** Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Consult a physician if irritation develops or persists.

**Eye Contact:** As a precaution, flush eyes with lukewarm water, lifting upper and lower lids, for at least 15 minutes. Consult a physician if irritation develops or persists.

**Ingestion:** Get medical advice/attention if you feel unwell.

**Most Important Symptoms/Effects:** The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11. Direct contact with eyes may cause temporary irritation.

**Indication of any Immediate Medical Attention and Special Treatment Needed:** Provide general supportive measures and treat symptomatically.

## Section 5- FIREFIGHTING MEASURES

### Suitable Extinguishing Media:

Water Fog, Foam, Dry Chemical Powder, Carbon Dioxide (CO<sub>2</sub>)

### Unsuitable Extinguishing Media:

Water. Do not use a solid water stream as it may scatter and spread the fire.

### Specific Hazards Arising from the Chemical:

In contact with water, releases flammable gas

### General Fire Hazards:

In contact with water, releases flammable gas

### 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 standard firefighting procedures and consider the hazards of other involved materials.

## Section 6- ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection see section 8.

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

**Methods for Containment & Clean Up:** Do not get water on spilled substance or inside containers. Following product recovery, flush area with water. For waste disposal see Section 13.

## Section 7- HANDLING AND STORAGE

**Handling:** Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. All equipment used when handling the product must be grounded. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Use care in handling/storage.

**Storage:** This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge buildup by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store in a dry place. Never allow product to get in contact with water during storage. Keep in an area equipped with sprinklers. Store away from incompatible materials. (see Section 10)

## Section 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:**

**Occupational Exposure Limits/Components with Workplace Control Parameters:** No exposure limit values noted for substance(s)

**Biological Limit Values:** No biological exposure limits noted for the ingredient(s)

**Appropriate Engineering Controls:** General ventilation normally adequate

**Control Parameters:** Follow standard monitoring procedures

**Personal Protective Equipment:**

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

**Skin and Body Protection:** Handle with 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. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. When using do not smoke. 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.

## 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:** No information available

**Boiling Point/Range:** No information available

**Flash Point:** No information available

**Evaporation Rate:** No information available

**Flammability (solid,gas):** Flammable solid

**Flammability or Explosion Limits:**

**Upper:** No data available

**Lower:** No data available

**Vapor Pressure:** No information available

**Vapor Density:** No information available

**Relative Density:** No information available

**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

## Section 10- STABILITY AND REACTIVITY

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

**Stability:** Risk of ignition.

**Conditions to Avoid:** Exposure to moisture. Contact with water liberates flammable gas. Moisture. Contact

|   |
|---|
| with incompatible materials                                       |
| <b>Incompatible Materials:</b> No information available           |
| <b>Hazardous Decomposition Products:</b> No information available |
| <b>Hazardous Polymerization:</b> No information available         |
| <b>Hazardous Reactions:</b> No information available              |

## Section 11- TOXICOLOGICAL INFORMATION

### **Information on likely Routes of Exposure:**

**Inhalation:** Due to lack of data the classification is not possible

**Skin Contact:** Due to lack of data the classification is not possible

**Eye Contact:** Due to lack of data the classification is not possible

**Ingestion:** Due to lack of data the classification is not possible

**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

**Inhalation:** No information available

**Skin Corrosion/Irritation:** No information available

**Serious eye damage/irritation:** No information available

**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 Effects:** No information available

**Development Effects:** No information available

**Specific Target Organ Toxicity – single exposure:** No information available

**Specific Target Organ Toxicity – repeated exposure:** No information available

**Aspiration Hazard:** 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

**Results of PBT & vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other Adverse Effects:** No information available.

## Section 13- DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Collect and reclaim or dispose in sealed containers to a licensed disposal company. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contaminated packaging as unused product. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14- TRANSPORT INFORMATION

**DOT:**

**UN-No:** UN2813  
**Proper Shipping Name:** Water-reactive solid, n.o.s.  
**Hazard Class:** 4.3  
**Subsidiary Risk:** -  
**Label(s):** 4.3  
**Packing Group:** II  
**Special Provisions:** IB7, IP2, T3, TP33  
**Packaging Exceptions:** 151  
**Packaging Non-Bulk:** 212  
**Packaging Bulk:** 242

**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling

**IATA:**

**UN-No:** UN2813  
**Proper Shipping Name:** Water-reactive solid, n.o.s.  
**Hazard Class:** 4.3  
**Subsidiary Risk:** -  
**Packing Group:** II  
**Environmental Hazards:** No  
**ERG Code:** 4W  
**Passenger and Cargo Aircraft:** Allowed with restrictions  
**Cargo Aircraft Only:** Allowed with restrictions

**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling

**IMDG/IMO:**

**UN-No:** UN2813  
**Proper Shipping Name:** Water-reactive solid, n.o.s.  
**Hazard Class:** 4.3  
**Subsidiary Risk:** -  
**Packing Group:** II  
**Environmental Hazards (Marine Pollutant):** No  
**EmS:** F-G, S-N

**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling

**Section 15- REGULATORY INFORMATION**

**US Federal Regulations:** This product is 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 regulated

**SARA 304 Emergency Release Notification:** Not regulated

**SARA 302 Extremely Hazardous Substance:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**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

**SARA 311/312 Hazardous Chemical:** No

**SARA Hazard Categories:**

**Immediate Hazard:** No

**Delayed Hazard:** No

**Fire Hazard:** No

**Pressure Hazard:** No

**Reactive Hazard:** Yes

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not Listed

**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 product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

## **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.

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding the accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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