## MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

Trade Name:Silicon NitrideChemical Family:NitrideFormula:Si,N,CAS #:12033-89-5

## II HAZARDOUS INGREDIENTS

% PEL TLV

100 Not Established Not Established

### III PHYSICAL DATA

**Boiling Point**: N/A **Melting Point**: 1900 °C (sublimes)

**Appearance and Odor**: Gray powder, odorless

## IV FIRE AND EXPLOSION HAZARDS DATA

Flash Point (Method Used): N/A Autoignition Temperature: N/A

Flammable Limits in Air: Lower: N/A Upper: N/A

**Extinguishing Media**: Use water, carbon dioxide, dry chemical, dry chemical extinguishing agents, dry sand or dry ground dolomite. **Special Fire Fighting Procedures**: No special fire-fighting procedures needed. Use normal procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing; hats, boots and gloves. If without risk, remove material from fire area. Cool container with water from maximum distance.

Unusual Fire & Explosion Hazard: None known

#### V HEALTH HAZARD INFORMATION

**Effects of over Exposure: Acute:** 

**Ingestion**: May be harmful, effects not known.

**Skin Contact**: May cause irritation. **Eye Contact**: May cause irritation.

**Inhalation**: Dust may cause irritation to upper respiratory tract.

Medical Conditions, if any, Aggravated by the Chemical: None known.

Other Health Hazards: None known.

Chronic Effects: None known.

Carcinogenicity: NTP: No IARC: No OSHA: No EPA: No

#### **EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION**: Remove to fresh air. If not breathing, give artificial respiration. Call physician immediately.

EYES: Immediately flush eyes, including under eyelids, with large amounts of water. If irritation persists seek medical attention.

**SKIN**: Remove contaminated clothing, flood skin with large amounts of water. If irritation persists seek medical attention.

**INGESTION**: No specific information available, but one should obtain medical attention.

# VI REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None known

Incompatibility (Material to Avoid): None known

Hazardous Decomposition Products: None known

Hazardous Polymerization: Will not occur

#### VII SPILL OR LEAK PROCEDURES

**Steps to Be Taken in Case Material Is Released or Spilled**: Wearing full protective equipment, cover spill with dry sand or vermiculite. Mix well and carefully transfer to a container.

Waste Disposal Method: Consult state, local or federal EPA regulations for proper disposal.

#### VIII SPECIAL PROTECTION INFORMATION

**Respiratory Protection**: Use a NIOSH/MSHA approved dust respirator.

Ventilation: Laboratory fume hood.

Protective Gloves: Rubber

Eye Protection: ANSI approved safety goggles.

Other Protective Equipment: Normal laboratory wear.

### IX SPECIAL PRECAUTIONS

Handling and Storage: Keep container tightly closed. Store in a cool, dry, well-ventilated area. Wash thoroughly after use.

**Other Precautions**: Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing. Caution: Dust may irritate skin and eyes.

Prepared By: S. Dierks Dated: May 1996