

Material Safety Data Sheet

Substance Identification

Identity: Iron Pyrite **Cas #:** 1309-36-0
Trade Names: Iron Pyrite, Pyritemax™

Manufacturer: Prince Minerals, Inc.
One Prince Plaza
Quincy, IL 62305
646-747-4200
Emergency: Chemtrec
1-800-424-9300

Components and Contaminants

<u>Chemical Name:</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Percent</u>
FeS ₂ Iron Pyrite	1309-36-0	---	---	100%

Physical Data

Boiling Point:	6500°C	Specific Gravity (H₂O=1):	NA
Vapor Pressure (mm/Hg):	NA	Melting Point:	>840° F
Vapor Density (Air=1):	NA	Evaporation Rate (Butyl Acetate=1):	NA
Solubility in Water:	slight		
Appearance and Odor:	Yellowish-green to gray when crushed. Slight pungent odor of SO ₂ .		

Fire and Explosion Hazard Data

Flash Point: This material has been reported to heat-up spontaneously and ignite combustible materials.

Flammable Limits: LEL NA UEL NA

Extinguishing Media: CO₂, dry chemical or sand.

Special Fire Fighting Procedures: In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: This material has been reported to heat-up spontaneously and ignite combustible materials.

Reactivity Data

Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: None known.

Incompatibility (materials to avoid): Water, acids, and readily combustible materials

Hazardous Decomposition or Byproducts: None known.

Hazardous Polymerization: Oxidation of iron pyrite results in evolution of SO_x and iron fume.

Health Hazard Data

Route of Entry:	INHALATION: May cause irritation of mucous membrane if dust is inhaled over a prolonged period of time. SKIN: No. INGESTION: Ingestion may cause abdominal pain and nausea.
Health Hazards (Acute and Chronic):	Respiratory disease may result from prolonged overexposure. Can cause eye irritation.
Carcinogenicity:	NTP: Yes (Silica) IARC Monographs: Yes (Silica)
Signs and Symptoms of Exposure:	Tearing of eyes, burning sensation in the throat, cough, chest discomfort.
Aggravation of Pre-existing Conditions:	Persons with impaired respiratory function may be more susceptible to the effect of this substance.
Emergency and First Aid Procedures:	IF INHALED, remove to fresh air and seek medical attention for any breathing difficulty. IN CASE OF SKIN CONTACT, wash with soap & water. Seek medical attention if red & irritated. IN CASE OF EYE CONTACT, flush eyes immediately with water for at least 15 minutes. Seek medical attention if irritation persists. IF INGESTED, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

Precautions for Safe Handling and Use

Material Release or Spill Precautions:	Should a spill occur, ventilate area. Clean-up personnel require respiratory protection. Recover uncontaminated material for use. Vacuum or sweep remaining material, keeping dust to a minimum.
Waste Disposal Method:	Is not a RSRA listed hazardous material. This product is generally suitable for landfill disposal. Follow all Federal, State and local laws, rules, and regulations regarding the proper disposal of this material.
Handling and Storing Precautions:	Protect containers from damage and keep closed when not in use.
Other Precautions:	Observe good personal hygiene. Wash after handling.

Control Measures

Respiratory Protection:	Use NIOSH approved particulate respirator if dust generation occurs or is anticipated. OSHA standard 1910.134 or ANSI Z88.2-1980 specifications are recommended.
Ventilation:	A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.
Protective Gloves:	Yes
Eye Protection:	Corrosive to eyes. Safety goggles are recommended.
Other Protective Clothing or Equipment:	Use other protective equipment when necessary in order to avoid prolonged exposure to skin.
Work and Hygienic Practices:	Observe good personal hygiene. Wash after handling.

SARA Title III Section 313 Supplier Notification

This product does not contain chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.45:

This information must be included in all MSDS's that are copied and distributed for this material.