



Paradise Minerals

One of the biggest manufacturer and exporter of Minerals

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MOLOCHITE

Safety Data Sheet (SDS)

Premium Grade for Submerged Arc Welding (SAW) Flux Manufacturing

Product Name: Molochite

Chemical Name: Calcined Kaolin (Calcined Alumino-Silicate)

Chemical Formula: $Al_2O_3 \cdot 2SiO_2$ (Typical Composition)

CAS No.: 92704-41-1 (Calcined Kaolin)

EC No.: 296-473-8

UN Number: Not Regulated

Product Overview

Paradise Minerals supplies **premium-grade Molochite**, a high-purity calcined alumino-silicate mineral specially processed for **Submerged Arc Welding (SAW) Flux** manufacturing. Its excellent refractoriness, low iron content, high thermal stability, and controlled particle size make it an ideal raw material for high-performance welding flux formulations.

Key Features

- ✓ High Purity Alumino-Silicate
- ✓ Excellent Refractoriness
- ✓ Low Iron Content
- ✓ Superior Thermal Stability

- ✓ Controlled Particle Size Distribution
- ✓ Low Moisture
- ✓ Consistent Batch Quality
- ✓ Suitable for SAW Flux Manufacturing

Typical Applications

- Submerged Arc Welding (SAW) Flux
- Agglomerated Welding Flux
- Precision Investment Casting
- Refractory Products
- Advanced Ceramics
- Foundry Industry
- Metallurgical Applications

Typical Physical Properties

Property	Value
Appearance	White to Off-White Powder
Physical Form	Fine Powder
Colour	White / Cream
Odour	Odourless
Bulk Density	0.9–1.3 g/cm ³ (Approx.)
Specific Gravity	2.5–2.7
Melting Point	>1,700°C
Solubility	Insoluble in Water
Moisture	Low
Stability	Stable Under Normal Conditions

Typical Chemical Composition*

Component	Typical Value (%)
Aluminium Oxide (Al ₂ O ₃)	42–47
Silicon Dioxide (SiO ₂)	50–55
Ferric Oxide (Fe ₂ O ₃)	≤1.0
Titanium Dioxide (TiO ₂)	≤2.0
Calcium Oxide (CaO)	≤0.5
Magnesium Oxide (MgO)	≤0.5
Loss on Ignition (LOI)	≤1.0

***Typical values. Actual composition may vary depending on grade and customer specification.**

Safety Information

Molochite is **not classified as hazardous** under the Globally Harmonized System (GHS). Dust generated during handling may cause temporary irritation to the eyes, skin, and respiratory system.

First Aid Measures

Eye Contact

Flush immediately with clean water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact

Wash affected area thoroughly with soap and water.

Inhalation

Move the affected person to fresh air. If respiratory discomfort continues, seek medical attention.

Ingestion

Rinse mouth with water. Seek medical advice if discomfort persists.

Fire Fighting Measures

- Non-Combustible Material
- Suitable Extinguishing Media:
 - Water Spray
 - Foam
 - Carbon Dioxide (CO₂)
 - Dry Chemical Powder

Handling & Storage

- Avoid excessive dust generation.
 - Ensure adequate ventilation during handling.
 - Wear appropriate personal protective equipment.
 - Store in a cool, dry, and well-ventilated area.
 - Protect from moisture.
 - Keep containers tightly sealed when not in use.
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Exposure Controls & Personal Protection

Eye Protection: Safety Goggles

Respiratory Protection: N95 Dust Mask or Approved Respirator

Hand Protection: Protective Gloves

Foot Protection: Safety Shoes

Protective Clothing: Recommended during industrial handling

Stability & Reactivity

Chemical Stability: Stable under normal storage conditions.

Conditions to Avoid:

- Excessive dust generation
- Contact with hydrofluoric acid and other strong acids
- Prolonged exposure to moisture

Hazardous Decomposition Products:

None under normal conditions.

Environmental Information

- Chemically inert under normal environmental conditions.
- Avoid unnecessary dust release.
- Dispose of waste according to local environmental regulations.

Transportation Information

Not classified as dangerous goods under:

- IMDG Code
 - ADR
 - IATA
 - RID
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Why Choose Paradise Minerals?

- ✓ High Purity Calcined Alumino-Silicate
- ✓ Excellent Thermal & Refractory Performance
- ✓ Low Iron Content
- ✓ Controlled Particle Size Distribution
- ✓ Consistent Product Quality
- ✓ Reliable Bulk Supply
- ✓ Trusted Industrial Mineral Supplier Since **1981**