



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1 – IDENTIFICATION

Product Identifier

Product Name	Drilling Grade Mica
Synonyms	Muscovite Mica, Drilling Mica, Lost Circulation Material (LCM)
Chemical Name	Hydrated Potassium Aluminum Silicate
Chemical Formula	$KAl_2(AlSi_3O_{10})(OH)_2$
CAS Number	12001-26-2
EC Number	310-127-6
REACH Status	Naturally occurring mineral – Registration Exempt (where applicable)
Product Use	Lost circulation control in oil, gas, geothermal, mining and water well drilling fluids

Supplier Information

BASEKIM Kimyasal Ürünler Sanayi ve Ticaret Ltd. Şti.

Head Office

No.6, Fahrettin Pasa St. (613)
Ilkbahar, Cankaya, Ankara, Türkiye

Tel: +90 312 514 70 55

SECTION 2 – HAZARD



IDENTIFICATION

GHS Classification

Not classified as hazardous according to GHS.

Label Elements

Signal Word

None

Hazard Pictogram

None

Hazard Statements

Not classified as hazardous.

Precautionary Statements

- Avoid excessive dust generation.
- Avoid prolonged inhalation of airborne dust.
- Wear appropriate personal protective equipment where dust levels exceed occupational exposure limits.
- Wash hands after handling.
- Store in a dry place.

Potential Health Effects

Route	Effect
Inhalation	Excessive dust may cause temporary respiratory irritation.
Skin Contact	Non-irritating under normal conditions.
Eye Contact	Dust particles may cause mechanical irritation.
Ingestion	Low toxicity. Large quantities may cause temporary gastrointestinal discomfort.



SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Content
Muscovite Mica	12001-26-2	310-127-6	>98%
Naturally Occurring Minerals	Proprietary	—	<2%

SECTION 4 – FIRST AID MEASURES

Inhalation

Move affected person to fresh air.

Seek medical attention if irritation persists.

Skin Contact

Wash with soap and water.

Eye Contact

Flush immediately with clean water for at least 15 minutes.

Obtain medical attention if irritation continues.

Ingestion

Rinse mouth with water.

Drink plenty of water.

Seek medical advice if discomfort develops.



SECTION 5 – FIRE FIGHTING MEASURES

Property	Information
Flammability	Non-flammable
Flash Point	Not Applicable
Auto Ignition	Not Applicable
Explosion Hazard	None
Suitable Extinguishing Media	Water Spray, Foam, CO ₂ , Dry Chemical
Hazardous Combustion Products	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Avoid dust generation.
- Collect material mechanically.
- Vacuum preferred over dry sweeping.
- Dispose according to local regulations.

SECTION 7 – HANDLING AND STORAGE

Handling

- Avoid creating airborne dust.
- Ensure adequate workplace ventilation.
- Use appropriate respiratory protection where required.

Storage

- Store in original sealed packaging.
- Keep dry.
- Protect from moisture.
- Avoid contamination.



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Follow applicable national regulations for nuisance dust.

Engineering Controls

Local exhaust ventilation recommended where dust is generated.

Personal Protective Equipment

Equipment	Recommendation
Respiratory Protection	Dust mask (P2/N95) where necessary
Eye Protection	Safety glasses
Hand Protection	Protective gloves
Skin Protection	Standard work clothing

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Silver White Flakes
Physical State	Solid
Odor	Odorless
Color	White to Silver
pH (10% Slurry)	7.0–8.5
Specific Gravity	2.75–2.85
Bulk Density	0.22–0.32 g/cm ³
Water Solubility	Insoluble
Melting Point	> 1200°C
Flash Point	Not Applicable
Vapor Pressure	Not Applicable
Boiling Point	Not Applicable
Evaporation Rate	Not Applicable
Partition Coefficient	Not Applicable
Viscosity	Not Applicable



SECTION 10 – STABILITY AND REACTIVITY

Property	Information
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Will not occur
Conditions to Avoid	Excessive moisture
Incompatible Materials	Strong Hydrofluoric Acid
Hazardous Decomposition Products	None under normal conditions

SECTION 11 – TOXICOLOGICAL INFORMATION

Parameter	Information
Acute Toxicity	Not toxic
Skin Corrosion	Not classified
Skin Irritation	Not classified
Eye Irritation	Mechanical irritation only
Respiratory Sensitization	Not expected
Skin Sensitization	Not expected
Mutagenicity	No evidence
Carcinogenicity	Not classified*
Reproductive Toxicity	Not expected
STOT	Not classified
Aspiration Hazard	Not applicable



*Contains no intentionally added crystalline silica above regulatory classification thresholds.

SECTION 12 – ECOLOGICAL INFORMATION

Property	Information
Ecotoxicity	Not harmful
Persistence	Natural mineral
Biodegradability	Not applicable
Bioaccumulation	Not expected
Mobility	Low
Environmental Hazard	None known

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose in accordance with local, regional and national regulations.

Packaging may be recycled where facilities exist.

SECTION 14 – TRANSPORT INFORMATION

Regulation	Status
UN Number	Not Regulated
Proper Shipping Name	Not Applicable
Hazard Class	Not Applicable
Packing Group	Not Applicable
Marine Pollutant	No
ADR	Not Regulated
RID	Not Regulated
IMDG	Not Regulated
ICAO / IATA	Not Regulated



SECTION 15 – REGULATORY INFORMATION

- GHS (Globally Harmonized System)
- CLP Regulation (EC) No. 1272/2008
- REACH Regulation (EC) No. 1907/2006 (where applicable)
- OSHA Hazard Communication Standard
- TSCA Inventory (Naturally occurring mineral)

SECTION 16 – OTHER INFORMATION

This Safety Data Sheet is prepared based on currently available information and is intended to describe the product with regard to health, safety and environmental requirements only. It does not constitute a guarantee of specific product properties. Users are responsible for determining the suitability of this product for their intended application and for complying with all applicable regulations.