



# AKJ MINCHEM PVT LTD

C/O BALAJI MINERALS, NEAR MEWAR WEIGH BRIDGE, N.H.8 SUKHER,  
UDAIPUR (RAJ.) 313001. WEBSITE:-WWW.AKJMINCHEM.CO.IN  
EMAIL : - AKJMINCHEM@GMAIL.COM/INFO@AKJMINCHEM.COM

## MATERIAL SAFETY DATA SHEET - MICA

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product identifiers

Product Name : Mica  
Product Number :  $KAl_2SiO_3 \cdot 10(OH)_2 \cdot 5H_2O$   
Brand : AKJ  
CAS-No. : 12001-26-2

**Synonyms/Common Names:** Ground Mica, Ground Muscovite Mica, Ground Potassium Aluminum Silicate

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet Company

AKJ Minchem Private Limited  
C/O SHREE BALAJI MARBLES & MINERALS  
Near Mewar way Bridge, NH-8 Sukher  
Udaipur Rajasthan 313001 INDIA  
Telephone: +91 9772789555      EMAIL :- [www.akjminchem.com](http://www.akjminchem.com)

#### 1.4 Emergency telephone number

Emergency Phone #: +91 9509806461

### 2. HAZARDS IDENTIFICATION

**Appearance:** White powder.

**Primary Routes of Entry:** Skin contact, skin absorption, eye contact, ingestion:

**Hazard Classification** - None. (Historical basis for classification).

**Target Organs:** Eye, skin and lungs.



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Medical Conditions Aggravated by Exposure: Skin contact may aggravate existing dermatitis. Breathing excessive quantities of ground mica dust may aggravate pre-existing respiratory conditions.

## Potential Health Effects:

Eye Contact: This product may produce irritation upon contact with the eye.

Skin Contact: Prolonged or repeated exposure may cause skin irritation. Ground mica is not expected to be absorbed through the skin in harmful amounts or to produce an allergic skin reaction.

Ingestion: No adverse effect is expected. If ingested, seek medical advice.

Inhalation: Inhalation of excessive quantities of ground mica dust may irritate the respiratory tract

Subchronic, Chronic: None expected. No applicable information was found concerning any potential health effects resulting from subchronic or chronic exposure to ground mica.

This product typically contains crystalline silica (quartz sand) above 0.1 % as a naturally occurring impurity. The International Agency For Research on Cancer has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)." It also noted that carcinogenicity was not detected in all industrial circumstance studies, and may be dependent on external factors affecting its biological activity or distribution of its polymorphs

## HMIS Ratings

Health Hazard	-	1
Flammability Hazard	-	0
Reactivity Hazard	-	0
Max. Personal Protection	-	E

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mica is a generic term applied to a group of a complex aluminium silicate minerals having different chemical and physical properties. It is listed by the ACGIH with a recommended TLV of 6 mg./cu.meter in which toxic impurities are not present e.g. Inhalable silica (quartz) less than 1%



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Minerals /Chemical composition	CAS. NO.	Proportion By weight
Ground Mica	12001-26-2	80-95%
Crystalline Silica,	14808-60-7	<5%
Quartz Kaolin - Al <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub>	1332-58-7	<10%
Feldspar - (Na,K,Ca)AlSi <sub>3</sub> O <sub>8</sub>	68476-25-5	<10%
Water		<1%

## 4. FIRST AID MEASURES

**Eye Contact:** Follow good industrial hygiene practices. In case of contact, immediately flush eyes with plenty of water.

**Skin contact :** Seek medical aid if necessary. Follow good industrial hygiene practices. Wash affected skin areas thoroughly with soap and water.

**Inhalation:** Ingestion: Follow good industrial hygiene practices. If excessive exposure by inhalation is suspected, remove to fresh air. If necessary, a MSHAINIOSH or OSHAINIOSH approved respirator is recommended. Seek medical aid if necessary.

**Ingestion :** Follow good industrial hygiene practices. If ingested, do not induce vomiting. If conscious, drink two glasses of water. Seek medical aid if necessary

## 5. FIRE AND EXPLOSION HAZARD DATA

Flammability	-	Non-flammable solid
Flash Point	-	Not applicable
General Hazard	-	Non-flammable and does not support burning
LEL	-	Not applicable
UEL	-	Not applicable
Extinguishing Media	-	Use appropriate extinguishing media for the surrounding fire.



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## 6. STABILITY & REACTIVITY DATA

Stability	- Stable
Polymerization	- Cannot occur
Incompatibility	- None Known
Hazardous Reactions	- None Known
Decomposition	- Not applicable

## 7. HANDLING AND STORAGE

Adopt good house keeping practices to reduce dust. Use approved hand, eye and respiratory protection devices while the material handling. No special safety measures required. Storage place should be ventilated and dust generation minimized when handling. Storage in a cool, dry location is recommended. Keep away from acids. Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floors or concrete pads. Minimize dust generation & accumulation. If excessive dust is generated, provide adequate ventilation and use proper respiratory and personal protective equipment. MSHAINIOSH or OSHAINIOSH approved respirator recommended.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: If respirator is required, use of a MSHAINIOSH or OSHAINIOSH approved respirator is recommended.

Ventilation: Use exhaust ventilation, if required, to maintain dust concentration below recommended exposure limits.

Protective Equipment: Wear side shield safety glasses.

Protection Gloves: Leather gloves, caps and paper mask.

Eye Protection: Safety glasses with side shields approved by central.

Other Protective clothing or Equipment: Normal safety protection is adopted.

Work / Hygienic Practices: keep a clean and safe work place and monitor work practices.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### a) Physical Characteristics: -

Melting point	-	1320 °C
Specific gravity	-	2.6 to 2.9
Bulk density	-	1746 kg/m <sup>3</sup>
Solubility in water	-	Insoluble
Acid solubility	-	< 0.5 %
Appearances & Odour	-	white/grey & No odor
Physical state	-	Solid
Viscosity	-	Not Applicable
Boiling point	-	Not Applicable
Melting point	-	1320°
Vapour Pressure	-	Not Applicable
PH - Neutral Hardness	-	7 - 8 Moh scale

### b) Chemical Composition:-

SiO <sub>2</sub>	-	45.00 to 55.00%
Fe <sub>2</sub> O <sub>3</sub>	-	3.00 to 6.00 %
Al <sub>2</sub> O <sub>3</sub>	-	26.00 to 34.00 %
MgO	-	0.30 to 0.80 %
CaO	-	0.80 %
TiO <sub>2</sub>	-	0.50 %
K <sub>2</sub> O	-	7.00 to 9.50 %
Na <sub>2</sub> O	-	0.40 to 1.00 %
LOI	-	4 to 6%



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## 10. ENVIRONMENTAL INFORMATION

Ecotoxicity : Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

Special Remarks on the Products of Biodegradation: Not available.

## 11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans: Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Nuisance dust.

## 13. DISPOSAL CONSIDERATIONS

Ground mica is a non-hazardous waste. Dispose of waste material in accordance with all local, state and federal requirements

## 14. TRANSPORT INFORMATION

No special precautions, It is suggested to keep bags closed and covered using tarpaulin or any sheet while the transporting to avoid dust generation.



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## 15. REGULATORY INFORMATION

SARA Title III Section 302 Extremely Hazardous Substances: This product does not contain extremely hazardous substances subject to the reporting requirements of Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 355.

SARA Title III Section 311 and 312 Health and Physical Hazard Categories per 40 CFR 370.2:

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

SARA Section 313 Notification: This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA: Product is listed in Initial Inventory, Vol. 1, Appendix A, CAS No. 12001-26-2. The International Agency for Research on Cancer has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)." It also noted that carcinogenicity was not detected in all industrial circumstance studies, and may be dependent on external factors affecting its biological activity or distribution of its polymorphs. (See IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 68 (1997).) Exposure to respirable silica has also been associated with silicosis, scleroderma, and nephrotoxicity. (See Occupational Lung Disorders, Third Edition, Chapter 12 (1994) and American Journal of Respiratory and Critical Care Medicine, Volume 155, pp 761-765 (1997).)

WARNING: This product may also contain extremely small amounts of one or more naturally-occurring materials known to the State of California to cause cancer, birth defects, or other reproductive harm.

CIN NO :- U14290RJ2016PTC055549

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## 16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. AKJ MINCHEM PVT LTD and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

As per the work safety rule, each and every user should reconsider the above information while product using.

For,

AKJ MINCHEM PVT LTD

AKJ MINCHEM PVT. LTD.  
  
DIRECTOR

( Authorized Signatory )