# MATERIAL SAFETY DATA SHEET – MICA MINERAL

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

### 1.1 Product Identifiers:

| | | |
|---|---|---|
| Product Name | : | Mica |
| Product Number | : | KAI2Si030 I0(OH)25H20 |
| Brand | : | Maxglint |
| CAS-No. | : | 12001-26-2 |

**Synonyms/Common Names:** Ground Mica, Ground Muscovite Mica, Mica Flakes, Mica Dry Ground Powder, 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

**Maxglint Minchem Private Limited**
GST: 37AAOCM7589B1ZX
CIN: U14299AP2021PTC118785
Survey No. 431, Plot No. 108, APIIC SEZ, Kakuturu Village, Venkatachalam Mandal, SPSR Nellore - 524320

### 1.4 Emergency Telephone Number

Emergency Phone: +91 9398061116

## 2. HAZARDS IDENTIFICATION

- **Appearance:** Amber Brown, Pale Brown, White.
- **Primary Routes of Entry:** Skin contact, Skin Absorption, Eye contact, Ingestion:
- **Hazard Classification -** None. (Historical basis for classification).
- **Target Organs:** Eye, Skin and Lungs.

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

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

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## 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 aluminum 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%

| Minerals /Chemical composition | CAS. NO. | Proportion By weight |
|---|---|---|
| Ground Mica | 12001-26-2 | 80-95% |
| Crystalline Silica, | 14808-60-7 | <5% |
| Quartz Kaolin - AI2Si205 (OH)4 | 1332-58-7 | <10% |
| Feldspar - (Na, K, Ca) AISi308 | 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. STABLITY & REACTIVITY DATA

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

## 7. HANDLING AND STORAGE

Adopt good housekeeping 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, cabs 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

**Physical Characteristics: -**

| | | |
|---|---|---|
| Melting point | - | 1320°C |
| Specific gravity | - | 2.6 to 2.9 |
| Bulk density | - | 1746 kg/m3 |
| Solubility in water | - | Insoluble Acid |
| solubility | - | < 0.5 % |
| Appearances & Odor | - | 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 |

**Chemical Composition: -**

| | |
|---|---|
| SiO2 | - 45.00 to 55.00% |
| Fe2O3 | - 3.00 to 6.00 % |
| Al2O3 | - 26.00 to 34.00 % |
| MgO | - 0.30 to0 .80 % |
| CaO | - 0.80 % |
| TiO2 | - 0.50 % |
| K2O | - 7.00 to 9.50 % |
| Na2O | - 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.

## 12. ECOLOGICAL INFORMATION

- Non-Hazardous to the Aquatic environment.

## 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.

## 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. **Maxglint Minchem Private Limited** 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.

**Authorized Signatory**

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