Material Safety Data Sheet

KV Pozz – MS (microsilica)

1. **Identification of the Product and Supplier**

Product name: KV Pozz-MS (Microsilica)
Product application: Cementitious systems.
Address/Phone No.:

K V METACHEM
61, Nandanbaug, S.P.Ring Road

AT Shella , Ahmeadabad, Gujarat-380058
Telephone:
www.kvmetachem.com
e-mail: info@kvmetachem.com
Contact person: Krunal Patel (kvmetachem@gmail.com)

2. **Composition/Information on Ingredients**

Chemical Characterization
CAS Number 71630-92-7 ashes (residues), rice husk

3. **Hazards Identification**

Eye: May cause eye irritation on contact.
Skin: May cause skin irritation.
Inhalation:
Acute: Exposure to the product may cause irritation to the throat and nasal passages. This product contains less than 1.5% crystalline silica. Rapidly developing silicosis may result from heavy exposure to respirable crystalline silica where recommended respiratory protection is not used.

Chronic: Cancer Hazard. This product contains less than 1.5% crystalline silica which is listed by IARC and NTP as a known human carcinogen. Prolonged exposure to respirable crystalline silica may cause silicosis. Silicosis is a form of progressive disabling pulmonary fibrosis characterized by shortness of breath, coughing, and diminished breathing capacity which may lead to death. If silicosis develops the chances of getting tuberculosis are increased.

4. **First Aid Measures**

Inhalation: Remove exposed person from dusty area. Fresh air.
Skin contact: Wash contaminated skin with water and/or a mild detergent.

Eye contact: Rinse eyes with water/saline solution. If discomfort persists, seek medical advice.
Ingestion: Not applicable.

5. Fire Fighting Measures

Flash Point: Non-Flammable
Lower Limits: None
Upper Limits: None Special Fire Fighting Procedures: None
Unusual Fire & Explosion Hazards: None

6. Accidental Release Measures

In case of Spill: Clean up in manner to minimize dust. Wetting of material reduces and eliminates dust. Material can be washed from surfaces. Waste Disposal Method: Dispose of according to local, state, and federal regulations

7. Handling and Storage

Handling: Use dustless system for handling and employee engineering controls to reduce concentrations of airborne dust. Avoid Spills.

Other Precautions: Post warning signs to alert personnel to potentially dusty areas. Practice good housekeeping and provide approved respirators if workers are exposed to dust

8. Exposure Controls/Personal Protection

Occupational Exposure Limits:

	OSHA-PEL		**ACGIH-TLV**	
Components	**TWA**	**STEL**	**TWA**	**STEL**
Amorphous Silica	80mg/m3 / % SiO2	None	10 mg	None
Crystalline Silica*				
Total dust	30mg/m3 / % SiO2+2	None	-	None
Respirable dust	10mg/m3 / % SiO2+2	None	0.05mg/m3	None
Potassium Oxide	None	None	None	None

* For Cristobalite use ½ the amount calculated from the formula for Total dust and Respirable dust

Engineering Controls: Good ventilation should be provided at all times. Local exhaust and dust collection system (Bag house type) should be used to control dust exposures.

Respiratory Protection: Where work place exposure limits are exceeded and engineering controls are not practicable, use NIOSH/MSHA approved respirators to control exposures.

Eye Protection: ANSI approved goggles.

Other protective equipment: Facilities using this material should be equipped with an eye wash readily accessible in work areas.

9. Physical and Chemical Properties

Form: Ultrafine amorphous powder (respirable dust) Dust forms agglomerates.
Color: Grey, off-white
Odor: Odorless
Melting Point (°C): 1550-1570
Solubility (Water): Insoluble/Slightly soluble
Solubility (Organic solvents): Insoluble/Slightly soluble
Specific Gravity (water =1): 2.2-2.3
Bulk density (kg/m3) approx.: 150-700
Specific surface (m2 /g): 15-30
Particle size, mean (µ m): ≈ 0.15 (less than 0.1% of primary particles > 45 µ m)

10. Stability and reactivity

Conditions to avoid: See below

Materials to avoid: Hydrofluoric acid (HF).

Hazardous Decomposition Product(s): The product reacts with hydrofluoric acid (HF) forming toxic gas (SiF_4).

Heating the product above 1000 °C can result in the formation of crystalline SiO_2-modifications as cristobalite / tridymite which may cause pulmonary fibrosis (silicosis)

11. Toxicological Information

Skin: May be abrasive to the skin.
Eye: Can cause eye irritation. Ingestion: Can cause irritation due to abrasiveness of silica.
Inhalation: Prolonged exposure to respirable crystalline silica may cause silicosis. Acute or rapidly developing silicosis may occur in a short period of time during heavy exposure to crystalline silica.
Carcinogenicity: The National Toxicology Program (NTP) concluded in its Ninth Annual Report on Carcinogens that respirable crystalline silica is a known human carcinogen. The International Agency for Research Causes (IARC) concluded in its 1997 monographs on the Evaluation of Carcinogenic Risk to Humans that respirable crystalline silica is known to be a human carcinogen.

12. Ecological Information

The product is not characterized as dangerous for the environment.

MOBILITY: The product is not mobile under normal environmental conditions.
PERSISTENCE: Not relevant for inorganic substances.
BIOACCUMULATION: Not relevant.
ECO-TOXICITY: The product does not meet the classification criteria for ecotoxicological endpoints in accordance with the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 5th revision).

13. Disposal Considerations

Consult permitted waste disposal site to assure compliance with all current local, state and federal regulations.

14. Transport Information

UN number: not classified
UN proper shipping name: not applicable
Transport hazard class: not applicable
Packing group: not applicable
Environmental hazard: The product is not a marine pollutant.
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): not classified
Special precautions: none

15. Regulatory Information

OSHA: This safety data sheet has been compiled in accordance with the revised Hazard Communication Standard (HCS 2012) and applies GHS classification criteria. Amorphous silica fume can be considered a nuisance dust and is as such outside the scope of the revised HCS (29 CFR 1910.1200 section (b)(6)(x)).

TSCA: The product is listed in the TSCA (Toxic Substance Control Act) Inventory (ID 51143, CAS # 69012-64-2).

CERCLA: (Comprehensive Response Compensation, and Liability Act): The product is not listed in 40 CFR 302.4.

RCRA: (Resource Conservation/Recovery Act): The product is not a listed hazardous waste.

SARA TITLE III: (Superfund Amendments and Reauthorization Act): 311/312 Hazard Categories: Immediate Health, Delayed Health. 313 Reportable Ingredients: None.

CALIFORNIA PROPOSITION 65:
This product contains < 0.1 % Crystalline Silica (CAS# 14808-60-7), a chemical known to the state of California to cause cancer.

IARC: Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).

US-NTP: The product is not listed in the 2011 Report on Carcinogens (RoC).

WHMIS: not classified.

DSL Canada The substance is specified on the public Portion of the Domestic Substances List (identifier: 69012-64-2).

16. Other Information: N/A