

MATERIAL SAFETY DATA SHEET (MSDS)

POTASSIUM SILICATE POWDER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE

Product identifier

Product Name POTASSIUM SILICATE POWDER

Alternative names Potassium water glass, and silicic acid potassium salt

CAS No. 1312-76-1 EINECS No. 215-199-1

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

Identified use(s) General purpose industrial chemical for use in a wide range of

applications.

Details of the supplier of the safety data sheet

Company Identification: ANKIT SILICATE

Survey No-259, P-3 B/H Nilkanth Ceramic Jetpar Road, At- Bela, Morbi - 363642, Gujarat (India). export@ankitsilicate.com

Email:

Emergency Telephone number

Emergency Phone No. +91 9825218329

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture GHS Classification

H319: Serious eye damage/irritation Category 2 H315: Skin corrosion/irritation Category 2

H335 : STOT - single exposure Category 3

Label elements



Hazard statement(s) H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.



Precautionary statement(s)

P261: Avoid breathing dust.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash (hands and exposed skin) thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Other hazards Not Calcified as PBT substance

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	Hazard symbol(s) and hazard statement(s)
			nazaru statement(s)
Potassium Silicate Powder	>99	1312-76-1	Eye Irrit 2 ;
Powder			Skin Irrit.2;
			STOT SE 3

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids

apart, for at least 15 minutes. Obtain immediate medical

attention.

Skin Contact Wash affected skin with plenty of water. If symptoms develop,

obtain medical attention.

Inhalation Remove patient from exposure, keep warm and at rest. Obtain

medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water and give

200-300 ml (half a pint) of water to drink. Obtain medical

attention.

Most important symptoms

and effects, both acute and

delayed

Alkaline.

Causes serious eye irritation

Irritating to respiratory system and skin.

The toxicity of sodium silicate is dependent on the silica to alkali

ratio and on the pH.

Indication of any immediate medical attention and special

treatment needed

Obtain immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media Use extinguishing media appropriate for surrounding fire.

Special hazards arising from the substance or mixture:

Hazardous decomposition products in case of fire: Toxic fumes may be released.

Advice for fire-fighters:

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, Wear suitable protective clothing. Wear eye/face protection. protective equipment and An approved dust mask should be worn if dust is generated

emergency procedures during handling. See Section: 8.2

Environmental precautions Do not allow to enter drains, sewers or watercourses. Advise

Authorities if spillage has entered water course or sewer or has

contaminated soil or vegetation.

Methods and materials for containment and cleaning upCaution - spillages may be slippery. Avoid generation of dust.

Sweep or preferably vacuum up and collect in suitable containers

for recovery or disposal.

Reference to other sections See Also Section 8.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid contact with eyes, skin and clothing.

Avoid generation of dust.

Emergency shower and eye wash facilities should be readily

available.

See Also Section 8.

Conditions for safe storage, including any incompatibilitiesKeep container tightly closed and dry.

Unsuitable containers: Aluminum

See Also Section 10.

Specific end use(s) See also Annex to the extended Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure and biological limit values: No additional information available.

- Recommended monitoring procedures: No additional information available.
- Air contaminants formed: No additional information available.
- > Eye and face protection:
- > Eye protection: Safety glasses.
- Skin protection: Skin and body protection: Wear suitable protective clothing.
- Hand protection: Protective gloves.
- Respiratory protection: Respiratory protective device with a particle filter.
- > Thermal hazards: No additional information available.
- **Environmental exposure controls**: Avoid release to the environment.
- DNEL and PNEC:
- > POTASSIUM SILICATE POWDER (1312-76-1)
- > DNEL/DMEL (Workers):
- Long-term systemic effects, dermal: 1.49 mg/kg bodyweight/day
- Long-term systemic effects, inhalation: 5.61 mg/m³
- DNEL/DMEL (General population)
- Long-term systemic effects, oral: 0.74 mg/kg bodyweight/day
- Long-term systemic effects, inhalation: 1.38 mg/m³
- Long-term systemic effects, dermal: 0.74 mg/kg bodyweight/day



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Powder. White.
Odour Odourless.
Odour Threshold (ppm) Not applicable.

pH (Value) < 7

Freezing Point (°C) Not applicable.

Melting Point (°C) > 1000

Boiling Point (°C) Not applicable. Flash Point (°C) [Closed cup] Not applicable. Evaporation rate Not applicable. Not applicable. Flammability (solid, gas) Not applicable. **Explosive Limit Ranges** Vapour Pressure (mm Hg) Not applicable. No data. Vapour Density (Air=1) Density (g/ml) No data. Solubility (Water) Soluble. Solubility (Other) No data. Partition Coefficient No data.

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Viscosity (mPa. s)

Explosive properties

Oxidizing Properties

Other information

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity The product is non-reactive under normal conditions of use,

storage and transport.

Chemical stability Sta

Possibility of hazardous

reactions

Conditions to avoid

Incompatible materials Hazardous decomposition

product(s)

Stable.

No dangerous reactions known under normal conditions of use.

Heat.

Strong acids. Strong oxidising agents. On combustion releases: Toxic fumes.



SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity (oral):

Acute toxicity (dermal):

Acute toxicity (inhalation):

Not classified.

Not classified.

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LD50 oral rat > 5000 mg/kg
LD50 dermal rat > 5000 mg/kg
Skin corrosion/irritation: Causes skin irritation

Serious eye damage/irritation Causes serious eye irritation

.pH: < 7

Respiratory or skin sensitisation: Not classified.

Germ cell mutagenicity: Not classified. Carcinogenicity:

Reproductive toxicity:

STOT- single exposure:

STOT-repeated exposure:

Aspiration hazard:

respiratory irritation.

Not classified
Not classified.
Not classified.
Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Ecology – general: The product is not considered harmful to aquatic organisms nor to

cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, Not classified

short-term (acute): Not classified.

Hazardous to the aquatic environment, Not classified.

Long-term (chronic):.

Persistence and degradability:

Bioaccumulative potential:

No additional information available

No additional information available

Mobility in soil: Ecology – soil: .Soluble in water. .

Results of PBT and vPvB assessment: No additional information available.

Other adverse effects:

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Discharge of this product to sewage treatment works is

dependent on local regulations with regard to pH controls. Dispose of this material and its container to hazardous or special

waste collection point.

Disposal should be in accordance with local, state or national

legislation.



SECTION 14: TRANSPORT INFORMATION

UN numberNot applicableProper Shipping NameNot applicable.Transport hazard class(es)Not applicable.Packing groupNot applicable.

Environmental hazards
Special precautions for user
Not classified as a Marine Pollutant.
No special packaging requirements.
Unsuitable containers: Aluminum

SECTION 15: REGULATORY INFORMATION

Chemical Safety Assessment A chemical safety assessment has been carried out for the

substance or the mixture by the supplier.

Safety, health and environmental regulation/legislation specific for the substance or mixture No additional information available.

SECTION 16: OTHER INFORMATION

The Information on This Safety Data Sheet Is Believed to Be Accurate and It Is the Best Information Available.

No Liability Resulting from The Use or Handling of The Product to Which This Safety Data Sheet Relates. Users and Handlers of This Product Should Make Their Own Investigations to Determine the Suitability of The Information Provided Herein for Their Own Purposes.

