

PRODUCT DATA SHEET

Royal Refractory Curing Compound

Liquid refractory curing compound | Sodium silicate based

TECHNICAL SPECIFICATIONS

Property	Published value
Form	Liquid
Total Solids	15-20%
Na_2SiO_3	15-20%
Drying Time	1-2 hours
Service Temp	1600°C
Shelf Life	24 months
Country of Origin	India

SAFETY DATA SHEET - INDUSTRIAL USE

1. IDENTIFICATION

Product identifier	Royal Refractory Curing Compound
Product type	Liquid sodium silicate-based curing compound
Recommended use	Curing compound for refractory applications
Restrictions	Industrial/professional refractory use only.
Supplier	Royal Refractories, Wankaner, Gujarat, India
Emergency contact	+91-8451999533

2. HAZARD IDENTIFICATION

Classification	Aqueous sodium silicate-based compound. May irritate skin and eyes. Avoid contact and mist generation.
Primary hazard	Avoid contact with eyes and skin. Avoid generating mist.
Health effects	Contact with sodium silicate solution may irritate eyes and skin.
Precautions	Wear suitable gloves and chemical splash eye protection. Avoid generating mist.
Other hazards	Use with adequate ventilation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Material	Liquid sodium silicate-based refractory compound.
Sodium silicate	15-20%
Total solids	15-20%
Other ingredients	Proprietary formulation.

4. FIRST-AID MEASURES

Inhalation	Move to fresh air. Obtain medical advice if coughing, breathing difficulty or irritation persists.
Skin	Wash with soap and water. Remove contaminated clothing.
Eyes	Rinse cautiously with clean water for at least 15 minutes. Seek medical advice if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting. Obtain medical advice if unwell.

5. FIRE-FIGHTING MEASURES

Flammability	Aqueous refractory compound; not expected to burn.
Extinguishing media	Use media suitable for the surrounding fire.
Specific hazards	No hazardous combustion products expected from the product itself.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid direct contact. Wear gloves and splash eye protection. Ventilate the area.
Cleanup	Contain spill. Absorb with inert material and collect for disposal. Wash residue with water where permitted.
Environment	Prevent bulk liquid from entering drains or waterways.

7. HANDLING AND STORAGE

Handling	Avoid eye and skin contact. Use suitable gloves and splash eye protection. Avoid mist generation.
Storage	Keep container closed and protected from damage.
Hygiene	Wash after handling. Do not eat, drink or smoke in handling areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Provide adequate ventilation and facilities for prompt eye and skin rinsing.
Eyes	Chemical splash goggles.
Hands / skin	Chemical-resistant gloves and protective clothing appropriate to the task.
Exposure assessment	Avoid mist generation; use suitable respiratory protection if airborne mist is present.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid sodium silicate-based refractory compound.
Pack / unit weight	See product label.
Water solubility	Water soluble.
Other properties	See product label for handling and application information.

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and intended use.
Avoid	Contamination and conditions outside recommended storage.
Decomposition	No hazardous decomposition expected under intended use.

11. TOXICOLOGICAL INFORMATION

Routes	Eye and skin contact; inhalation of mist; ingestion.
Acute effects	Sodium silicate solutions may irritate eyes and skin.
Precautions	Avoid direct contact and mist generation.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid uncontrolled environmental release.
Persistence	Inorganic silicate material is not readily biodegradable.
Bioaccumulation	Not expected for inorganic silicate material.

13. DISPOSAL CONSIDERATIONS

Waste	Dispose under applicable local requirements. Do not discharge bulk product to drains.
Packaging	Drain and manage packaging under local requirements.

14. TRANSPORT INFORMATION

Precautions	Secure container against damage and leakage.
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15. REGULATORY INFORMATION

Framework	Prepared in the 16-section GHS format.
Handling	Follow applicable occupational health, environmental and transport requirements.

16. OTHER INFORMATION

Issue / revision	30 October 2026 / Revision 01
Technical source	Royal Refractories product specifications.
Safety basis	General sodium silicate solution precautions.
References	UNECE GHS.
Status	Use with site-specific risk assessment and applicable local requirements.