

MATERIAL SAFETY DATA SHEET
- **Renaistone Liquid Catalyst**

Date Prepared: January 12, 2012

1. PRODUCT/COMPANY IDENTIFICATION	
Product Name:	RenaiStone Casting Compound Liquid Catalyst
Manufacturer's Name and Address:	Renaistone
Telephone number for information:	1-732-784-7876

2. COMPOSITION AND INFORMATION ON INGREDIENTS		
Name	CAS#	% by Weight
Potassium Hydroxide	1310-58-3	25-35
Oligosilicate Hydrate		20-30
Water	7732-18-5	40-60

3. HAZARDS IDENTIFICATION	
Potential Acute Health Effects:	
Hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant, corrosive), of ingestion, of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.	
Potential Chronic Health Effects:	
CARCINOGENIC EFFECTS	Not available.
MUTAGENIC EFFECTS	Mutagenic for mammalian somatic cells.
TERATOGENIC EFFECTS	Not available.
DEVELOPMENTAL TOXICITY	Not available.
The substance may be toxic to upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.	
High pH of product is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.	

4. FIRST AID MEASURES	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Skin Contact	Wash with a disinfectant soap with plenty of water for at least 15 minutes. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

5. FIRE FIGHTING MEASURES	
Flammable limits	This material is noncombustible.
Extinguishing Media	This material is compatible with all extinguishing media
Hazards to fire-fighters	See Section 3 for information on hazards when this material is present in the area of a fire.

Fire-fighting equipment	The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.
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6. ACCIDENTAL RELEASE MEASURES	
Personal Protection	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. See section 8.
Environmental Hazards	Sinks and mixes with water. High pH of this material is harmful to aquatic life, see Section 12. Only water will evaporate from a spill of this material.
Small Spill Cleanup	Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state and local regulations or permits.
Large Spill Cleanup	Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material. If containment is impossible, neutralize contaminated area and flush with large quantities of water.

7. HANDLING AND STORAGE	
Handling	Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.
Storage	Keep containers closed. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature 0-95° C. Loading temperature 45-95° C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Engineering Controls	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
Respiratory Protection	Use a NIOSH-approved dust and mist respirator where spray mist occurs. Observe OSHA regulations for respirator use (29 C.F.R. §1910.134)
Skin Protection	Wear body-covering protective clothing and gloves.
Eye Protection	Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Color	Clear to yellow hazy
Appearance	Liquid
Odor	Odorless
pH	13,5
Solubility in water	Miscible
Specific gravity	1.4-1.5 g/cm ₃

10. STABILITY AND REACTIVITY	
Stability	This material is stable under all conditions of use and storage.
Conditions to avoid	None
Materials to avoid	Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.
Hazardous decomposition products	Hydrogen

11. TOXICOLOGICAL INFORMATION	
Acute Data	Human experience indicates that irritation occurs upon exposure when get on clothes, skin or mucous membrane.

Subchronic Data	The subchronic toxicity of this material has not been tested.
Special Studies	The mutagenic potential of this material has not been tested.

12. ECOLOGICAL INFORMATION	
<p>This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. It does not contribute to BOD. This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges. Where abnormally low natural silica concentrations exist (less than 0.1 ppm), dissolved silica may be a limiting nutrient for diatoms and a few other aquatic algal species. However, the addition of excess dissolved silica over the limiting concentration will not stimulate the growth of diatom populations; their growth rate is independent of silica concentration once the limiting concentration is exceeded. Neither silica nor potassium will appreciably bioconcentrate up the food chain.</p> <p>Sinks and mixes with water. Only water will evaporate from this material.</p>	

13. DISPOSAL CONSIDERATIONS	
Classification	Disposed material is not a RCRA Hazardous waste.
Disposal Method	Dispose in accordance with federal, state and local regulations and permits.

14. TRANSPORT INFORMATION	
DOT UN Status	This material is not regulated hazardous material for transportation.

15. REGULATORY INFORMATION	
CERCLA	No CERCLA Reportable Quantity has been established for this material.
SARA TITLE III	Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §§311/312: Acute

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