



CAPTAIN INDUSTRIES

Captain Industries

MATERIAL SAFETY DATA SHEET

Trade Name:	Turbid, Soap Alkaline, Soap Transparent, PUCCA Gum, PUCCA Tex, PUCCA Mould & Brick Bond
Synonyms:	Liquid Sodium Silicates, Water Glass
Date Prepared:	March 15, 2004

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:	Captain Industries Captain Place, F-192, Park Lane, Block 5 Clifton, Karachi-75600 Phone Number: (9221) 3583-2044 - 48 Fax Number: (9221) 3583-2049
In case of emergency call:	(9221) 3583-2044
Substance:	Sodium Silicate Liquid Alkaline
Product use:	Adhesive, binder, pulp & paper, water treatment, catalyst, detergent and gels.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	CAS Registry Number
Water:	7732-18-5 48-66
Sodium silicate:	1344-09-8 34-52

3. HAZARDS IDENTIFICATION

Emergency Overview:	Clear to hazy, colorless, odorless, thick liquid, Causes eye, skin, and digestive tract irritation. Spray mist causes irritation to respiration tract. High PH is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.
Eye contact:	Causes irritation.
Skin contact:	Causes irritation.
Inhalation:	Spray mist irritating to respiratory system.
Ingestion:	May cause irritation to mouth, esophagus, and stomach.
Chronic hazards:	No known chronic hazards.
Physical hazards:	Dries to form glass film which can easily cut skin. Spilled material is very slippery. Can etch glass if not promptly removed.
Carcinogen status:	OSHA No. NTP No. LARC No.

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4. FIRST AID MEASURES

Eye:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

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.

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. Keep out of water supplies, sewers, and reservoirs.
Small spill cleanup:	Mop up and neutralize liquid, dispose in accordance with federal, provincial and local regulations or permits.

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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 CONTROL / PERSONAL PROTECTION

Engineering controls:	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
Respiration protection:	Use a NIOSH-approved dust and mist respirator where spray mist occurs. Observe Provincial regulations for respirator use.
Skin protection:	Wear body-covering protective clothing and gloves.
Eye protection:	Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid.
Color:	Clear to Opaque.
Odor:	Odorless or musty odor.
pH:	Approximately 11.0 - 12.7
Specific gravity: (water = 1)	1.42 – 1.70 11.6 to 14.2 lbs/gal
Solubility in water:	Miscible.
Boiling Point:	101°C – 102 °C (214 - 216°C)
Freezing Point:	-1°C (30°F)

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10. STABILITY AND REACTIVITY

Stability:	This material is stable under all conditions of use and storage.
Conditions to avoid:	Prolong storage above 60°C (140°F).
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

Toxicity Data:	Inhalation may cause irritation of the respiratory tract, possibly with coughing, choking and pain either immediately or more often within 72 hours. Depending on the concentration and duration of exposure, repeated or prolonged exposure may cause inflammatory changes in the nose, sinuses and bronchial regions. Direct skin contact may cause irritation. Repeated or prolonged contact may result in dermatitis. Direct contact to eyes may cause severe irritation, pain and burns, possibly severe. The degree of injury depends on the concentration and duration of contact. The full extent of the injury may not be immediately apparent. Repeated or prolonged contact may result in conjunctivitis, lens damage or other effects including blindness. Ingestion may cause irritation of the esophagus and gastrointestinal tract.
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12. ECOLOGICAL INFORMATION

Fish Toxicity:	This material has exhibited high toxicity to aquatic organisms.
Fate and Transport:	
Biodegradation	This material is inorganic and not subject to Biodegradation.
Persistence:	This material is believed to persist in the environment.
Bioconcentration:	This material is believed not to bioaccumulate.
Other ecological information:	This material has exhibited slight toxicity to terrestrial organisms.

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Reuse or reprocess if possible. Dispose in accordance with all applicable regulations.
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14. TRANSPORT INFORMATION

TDG UN Status:	Not regulated.
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15. REGULATORY INFORMATION:

Not regulated.

16. OTHER INFORMATION

Prepared by:	Captain Industries
Supersedes revision of:	November 21, 2017

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