

MATERIAL SAFETY DATA SHEET

Trade Name: S G 2.0, S G 2.2, S G 2.4 & S G 3.2

Synonyms: Lumps Sodium Silicates

Date Prepared: March 15, 2004 1 of 5

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 Alkaline Glass

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: CAS Registry Number Sodium silicate: 1344-09-8 100%

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.

Chronic hazards: No known chronic hazards

Carcinogen status: OSHA No.

NTP No. LARC No.

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4. FIRST AID MEASURES

Skin:

Eye: In case of contact, immediately flush eyes with plenty of

water for at least 15 minutes. Get medical attention. 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 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 CONSTROL / 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. Obverse 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: Glass Lumps.
Color: Aquamarine.
Odor: Odorless.

pH: Approximately 11.0 - 12.7

Specific gravity: 88 lbs/ft³ untamped.

Solubility in water: Miscible.

Solubility in water: Slowly soluble in all proportions.

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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

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.

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.

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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