



SDS NO:PQN VERSION:013 2015-05-08 Distributed by: Laguna Clay Company 14400 Lomitas Ave City of Industry, CA 91746 1-800-4Laguna info@lagunaclay.com www.lagunaclay.com

-ETY DATA SA

N® Sodium Silicate Solution

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier		
Product Name		
Alternative names		

CAS No. EINECS No. **N® Sodium Silicate Solution** Sodium silicate solution (2.6<MR<=3.2) 1344-09-8 215-687-4

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified use(s)

None known.

P.O. Box 840

Valley Forge

General purpose industrial chemical for use in a wide range of applications. Binding agent ; Corrosion inhibitor ; Dust binding agent ; Flame retardant or fire preventing agent ; Flotation agent ; Stabiliser ; Viscosity control agent

Uses advised against

1.3 Details of the supplier of the safety data sheet **Company Identification** PQ Corporation

	PA 19482
	USA
Telephone:	+1 610-651-4200
E-Mail (competent person)	sds.uk@pqcorp.com

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1.4 Emergency telephone number

Emergency Phone No. +1 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the sub	stance or mixture
GHS Classification	Skin Irrit. 2
	Eye Irrit. 2

Hazards summary

Alkaline. Irritating to eyes and skin. Spilled material is slippery

2.2 Label elements Hazard pictogram(s)



Warning

Signal word(s)

Hazard statement(s)

H315: Causes skin irritation. H319: Causes serious eye irritation.

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P280: Wear protection/face pro P303+P361+P353 immediately all co water/shower. P305+P351+P338	8: IF ON SKIN (or hair): Remove/Take off ntaminated clothing. Rinse skin with 8: IF IN EYES: Rinse cautiously with water for Remove contact lenses, if present and easy to
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2.3 Other hazards Dries to form glass film which can easily cut skin. Can etch glass if not promptly removed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Regulation (EC) No. 1272/2008 (CLP)				
Ingredient(s)	%W/W	CAS No.	EINECS No. /	Hazard symbol(s) and
-			REACH Registration	hazard statement(s)
Silicic acid, sodium salt	37.5	1344-09-8	215-687-4	H315 : Skin Irrit. 2 ;
				H319 : Eye Irrit. 2
Water	62.5	7732-18-5	231-791-2	

SECTION 4: FIRST AID MEASURES

4.1 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.
 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special 	Alkaline. Irritating to eyes and skin. The toxicity of sodium silicate is dependent on the silica to alkali ratio and on the pH. Obtain immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing Media	Compatible with all standard fire fighting techniques.
Unsuitable extinguishing Media	None known.
5.2 Special hazards arising from	Not applicable. Aqueous solution. Non-combustible.
the substance or mixture	
5.3 Advice for fire-fighters	None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

treatment needed

Wear suitable protective clothing. Wear eye/face protection.

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6.2 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.
6.3 Methods and materials for containment and cleaning up	Caution - spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery.
6.4 Reference to other sections	See Also Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avoid generation of mist. Provide adequate ventilation. Emergency shower and eye wash facilities should be readily available. See Also Section 8
7.2 Conditions for safe storage, including any incompatibilities	Storage temperature 0-95° C. Loading temperature 45-95 ° C. Do not allow material to freeze. Provide an adequate bund wall. Unsuitable containers: Aluminium See Also Section 10.
7.3 Specific end use(s)	See also Annex to the extended Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits	
Silicic acid, sodium salt	No Occupational Exposure Limit assigned.	
	An exposure limit of 2 mg/m3 (15 min TWA) is recommended by analogy	
	with sodium hydroxide (UK EH40).	
8.2 Exposure controls	Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.	
8.2.1 Appropriate engin controls	eering Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.	
8.2.2 Personal Protection	on	
Respiratory protection	Respiratory protection not normally required. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.	
Eye/face protection	Chemical goggles (EN 166).	
Skin protection	Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3, level 6 breakthrough time (>480min). Wear suitable overalls.	
8.2.3 Environmental Ex Controls		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Odour Odour Threshold (ppm) pH (Value) Freezing Point (°C) Melting Point (°C) Boiling Point (°C) Flash Point (°C) [Closed cup] Liquid. Almost colourless. Odourless. Not applicable. Alkaline. 11-12 Not applicable. Not applicable. 100 Not applicable.

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Not applicable. Evaporation rate Flammability (solid, gas) Not applicable. **Explosive Limit Ranges** Not applicable. Not applicable. Vapour Pressure (mm Hg) Vapour Density (Air=1) No data. Solubility (Water) Soluble. Solubility (Other) No data. Partition Coefficient No data. Auto Ignition Point (°C) Not applicable. Decomposition Temperature (°C) Not applicable. Viscosity (mPa. s) Not applicable. Explosive properties Not applicable. **Oxidising Properties** Not applicable. 9.2 Other information

1.41 g/cm3 (20°C), 42.0° Bé, 11.75 lbs/gal No data.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous reactions	See Section: 10.3 Stable. When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.
10.4 Conditions to avoid	See Section: 10.3
10.5 Incompatible materials	See Section: 10.3
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity

Inc	estion

Density (g/ml)

All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50 (rat) 3400 mg/kg bw Inhalation Mist is irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Inhalation LC50 (rat) >2.06 g/m³ Material will cause irritation. Dermal LD50 (rat) >5000 mg/kg bw Skin Contact Eve Contact Material will cause irritation. Skin corrosion/irritation Irritating to skin. Serious eye damage/irritation Irritating to eyes. Not sensitising. Sensitisation No evidence of genotoxicity. In vitro/in vivo negative. Mutagenicity No structural alerts. IARC, NTP, OSHA, ACGIH do not list this Carcinogenicity product as known or suspected carcinogen. **Reproductive toxicity** No evidence of reproductive toxicity or developmental toxicity. STOT - single exposure Not classified STOT - repeated exposure Not classified. NOAEL oral (rat) >159 mg/kg bw/d Aspiration hazard Not classified Other information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Fish (Brachydanio rerio) LC50 (96 hour) 1108 mg/l Aquatic invertebrates: (Daphnia magna) EC50 (48 hour) 1700 mg/l

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12.2 Persistence and degradability	Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.
12.3 Bioaccumulative potential	Inorganic. The substance has no potential for bioaccumulation.
12.4 Mobility in soil	Not applicable.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	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

14.1 UN number	Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'. Not classified as hazardous under DOT or US Transport Recommendations. International Maritime Dangerous Goods (IMDG) Code: Not classified as hazardous
 14.2 Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable. Not applicable. Not applicable. Not classified as a Marine Pollutant. Unsuitable containers: Aluminium Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA Inventory Status: Reported/Included. AICS Inventory Status: Reported/Included. DSL/NDSL Inventory Status: Reported/Included. SARA TITLE III: Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §§311/312: Acute

German Water Hazard Classification VwVwS: Product ID number 1314, WGK class 1 (low hazard to water). HMIS (Hazardous Material Information System) 2,0,0

15.2 Chemical Safety Assessment Information available on request.

SECTION 16: OTHER INFORMATION

Data referenced in this eSDS is from company-owned information and from data legitimately accessed by PQ Corporation through membership of Industry Consortia or other agreements. This includes data relating to toxicology, ecotoxicology, DNELs, PNECs and other information in this eSDS and its annex.

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This SDS was last reviewed: 02/2015

The following sections contain revisions or new statements: All sections.

GHS Classification Signal word(s) Hazard pictogram(s)	Skin Irrit. 2 Eye Irrit. 2 Warning
Hazard statement(s)	H315: Causes skin irritation. H319: Causes serious eye irritation.
Precautionary statement(s)	 P262: Do not get in eyes, on skin, or on clothing. 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.

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