

THE PQ CORPORATION

MATERIAL SAFETY DATA SHEET

N® SODIUM SILICATE SOLUTION

SECTION 1.	IDENTIFICATION OF PRODUCT
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MANUFACTURER PQ Corporation
 ADDRESS Southpoint, P. O. Box 840, Valley Forge, PA 19482-0840
 EMERGENCY TELEPHONE NUMBER... 610/651-4200
 SALES NAME..... **N® Sodium silicate solution**
 CHEMICAL NAME Contains Silicic acid, sodium salt and water.
 TSCA CAS REGISTRY NO 1344-09-8, 7732-18-5
 DOT HAZARD CLASS N.A.
 DOT SHIPPING NAME N.A.

SECTION 2.	PHYSICAL DATA
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APPEARANCE & ODOR Viscous liquid. Colorless to hazy white. Odorless.
 SPECIFIC GRAVITY (liquids only)..... 1.39
 SOLUBILITY IN WATER..... Complete.
 SOLIDS CONTENT Approximately 37.5% by wt.
 pH (aqueous liquids only) 11.3

SECTION 3.	FIRE, EXPLOSION AND REACTIVITY HAZARD DATA
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FLASH POINT (°F)..... Non-combustible
 SPECIAL FIRE FIGHTING PROCEDURES N.A.
 STABILITY Stable.
 CONDITIONS TO AVOID Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.
 INCOMPATIBILITY (Materials to Avoid) Concentrated acids. Gels when mixed with acids.
 HAZARDOUS DECOMPOSITION PRODUCTS.... hydrogen gas.

SECTION 4.	SPILLS AND DISPOSAL
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ENVIRONMENTAL HAZARDS... Sinks and mixes with water. High pH (alkalinity of undiluted or unneutralized material is harmful to aquatic life. Not a listed as an extremely hazardous substance or toxic chemical under SARA Title III, §302, §304, or §313.
 SPILLAGE Keep unnecessary people away. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways. If containment is impossible, neutralize contaminated area and flush with large quantities of water. Clean up any remaining solids and dispose of in accordance with federal, state and local requirements. Observe environmental regulations.
 WASTE DISPOSAL METHOD ... Not a RCRA Hazardous waste. Neutralize with dilute acid and landfill solids according to local, state and federal regulations. Flush neutral liquid to sewer with plenty of water. Observe environmental regulations.

N.A. = Not Applicable

*Includes other hazard classes, to which different safety data sheets apply.

SECTION 5.	HEALTH HAZARD DATA
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EYE CONTACTCauses eye irritation.
 SKIN CONTACT.....Causes skin irritation.
 INHALATIONCauses irritation to respiratory tract.
 INGESTIONCauses irritation to esophagus and stomach.
 CHRONIC HAZARDSNo known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen.
 SIGNS AND SYMPTOMS OF EXPOSUREBurning or itching in nose and throat (inhalation). Pain, redness and tearing (eye exposure). Itching or burning (skin exposure).

MEDICAL CONDITIONS
 AGGRAVATED BY EXPOSUREAsthma and lung diseases, skin diseases.
 FIRST AID PROCEDURESIn case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. If swallowed, DO NOT induce vomiting. If victim is fully conscious, give victim a cupful of water. Get medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION 6.	SPECIAL PROTECTION INFORMATION
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RESPIRATORY PROTECTIONUse NIOSH-certified mist respirator where mist occurs. Observe OSHA regulations for respirator use (29 CFR 1910.134).
 GLOVESWear rubber gloves.
 EYE PROTECTION.....Chemical goggles and/or face shield.
 OTHER PROTECTIVE EQUIPMENTSafety shower and eyewash fountain should be within direct access.
 PERSONAL HYGIENE.....Avoid contact with eyes, skin, and clothing. Do not breathe spray mist. Wash thoroughly after handling. Wash contaminated clothing before reuse.
 ENGINEERING CONTROLUse with adequate ventilation. Keep container closed.

SECTION 7.	SUBSTANCES FOR WHICH STANDARDS HAVE BEEN SET
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OSHA Permissible Exposure Limit or ACGIH Threshold Limit Value have not been established.
 PQ recommended Ceiling limit 5mg/m³ Respirable mist.

EXPOSURE ANALYSIS METHODS See: NIOSH Manual of Analytical Methods, 4th ed., Method 7401.

SECTION 8.	SOURCE OF INFORMATION
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John G. Blumberg

Date: 07/31/00