



Ministry of  
Environment  
and Energy

Ministère de  
l'Environnement  
et de l'Énergie

125 Resources Road  
Etobicoke, ON M9P 3V6

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Etobicoke ON M9P 3V6

Water Resources Branch  
Drinking Water Section  
October 1, 1993.

tel (416) 235-5816  
fax (416) 235-6059

Mr. Stephen Gibson  
National Silicates Ltd.  
429 Kipling Avenue  
Etobicoke  
Ontario  
M8Z 5C7

Dear Mr Gibson:

Re: Acceptability of National Silicates Products "Liquid Sodium Silicate Grades R, N, E, O, K, M, STAR, RU, RU44, D, and B-W49"

Based upon the information disclosed to this Ministry about the composition of the above products, no reason was found for objection to the use of the products as additives in potable water treatment. This no objection statement assumes continued care in ingredient quality control and manufacture and addition of the minimum necessary amounts of the product, up to a calculated maximum of 100 mg/L as silica (silicon dioxide) to potable water.

This no objection statement remains current only if there are no material changes in the product formulations. It is the responsibility of the supplier to refer any changes in composition of the products to this office. Product users are warned of the corrosive nature of the products and are reminded that safety and handling precautions listed by the manufacturer must be followed. Users may check with this office of the Ministry for current product status; this no objection to use statement becomes void unless renewed through this office on or before October 1, 1998.

This no objection statement is neither an endorsement of the quality or utility of the products named nor is it a recommendation for use of the products in any particular application.

Yours truly,

A handwritten signature in dark ink, appearing to read "A. Edmonds", written over a horizontal line.

Dr. A. Edmonds  
Senior Water Treatment Specialist

cc: Dr. K.J. Roberts, Mr. R.B. Hunsinger, Water Resources  
ref 2b0100339.1tr



**National Silicates Ltd.**

an affiliate of The PQ Corporation

P.O. Box 69, Station N  
Toronto, Ontario  
Canada M8V 3S7

Telephone: (416) 255-7771

Fax: (416) 255-0170

March 23, 1994

**Re: SODIUM SILICATE APPROVAL FOR WATER TREATMENT.**

This document concerns the environmental and safety aspects of liquid sodium silicate as a treatment additive for water.

Sodium silicates: N<sup>®</sup>, D<sup>®</sup> and other sodium silicate liquids are approved by NSF as of February 1, 1994.

NSL's N<sup>®</sup> grade sodium silicate meets also the following standards and has the following approvals:

- \* FDA GRAS (generally recognized as safe) status
- \* AWWA/ANSI B404-87 standard for Liquid Sodium Silicate
- \* FDA #21CFR-182.90, approval for food contact
- \* CAS #1344-08, silicic acid, sodium salt

At the concentrations suggested for corrosion control, there is absolutely no danger to health. The Surgeon General's Office of U.S. Public Health Office raises no objection to such addition of sodium silicate to potable water. There is no added taste or odour to the water.

National Silicate Ltd.



**NSF International (NSF)  
OFFICIAL LISTING**

This is a Certification by NSF that these products conform to the requirements of  
NSF Standard 60 - Drinking Water Treatment Chemicals - Health Effects

This is your Official Listing as we have it on record at this time.

September 30, 1993

CC: 01 02

**NATIONAL SILICATES LTD.**  
**AN AFFILIATE OF THE PQ CORPORATION**  
**PO BOX 69, STATION N**  
**TORONTO, ONTARIO, M8V3S7**  
**CANADA**

**Plant At: WHITE COURT, ALBERTA, CANADA**

Chemical/ Trade Designation	Category	Max Use	Monitor Code
Sodium Silicate			
N®Grade Liquid Sodium Silicate	Coagulation & Flocculation	42 mg/L	A
	Sequestering		
D®Grade Liquid Sodium Silicate	Coagulation & Flocculation	42 mg/L	A
	Sequestering		
Sodium Silicate - Liquid	Coagulation & Flocculation	42 mg/L	A
	Sequestering		

All production of above Listed products is NSF Certified, whether or not it bears the NSF Mark.

Not to appear in printed Listing:

A - All products with this code are covered by the testing of Sodium Silicate-Liquid.

**Plant At: VALLEYFIELD, QUEBEC, CANADA**

Chemical/ Trade Designation	Category	Max Use	Monitor Code
Sodium Silicate			
N®Grade Liquid Sodium Silicate	Coagulation & Flocculation	42 mg/L	A
	Sequestering		
D®Grade Liquid Sodium Silicate	Coagulation & Flocculation	42 mg/L	A
	Sequestering		
Sodium Silicate - Liquid	Coagulation & Flocculation	42 mg/L	A
	Sequestering		

All production of above Listed products is NSF Certified, whether or not it bears the NSF Mark.

Not to appear in printed Listing:

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Continued on page 2

Additions Cannot Be Made To  
This Listing Without Prior  
Evaluation And Acceptance By NSF

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