

01 April 2014

Danyl Strype  
[fyi-request-1443-fe2c93a@requests.fyi.org.nz](mailto:fyi-request-1443-fe2c93a@requests.fyi.org.nz)

Dear Mr Strype

I refer to your request for information relating to the chemical compounds that are used in the fluoridation of our water supply and the name of the companies that we purchase these from.

Your request has been considered under the Local Government Official Information and Meetings Act 1987 and I advise as follows:

- The name of the company that the Dunedin City Council purchases the chemicals from is D C Rosser & Co Ltd.
- The chemical compound is Disodium hexafluorosilicate. Its trade name is Fluopray SSF and has a chemical formula of  $\text{Na}_2\text{SiF}_6$ .

Please find attached our "Material Safety Data Sheet".

Please note that Council does trial other products from time to time. We have previously trialled the following product:

- The name of the company was K C Industries of the USA and the New Zealand distributor was Consolidated Chemicals of Auckland.
- The product name is Sodium Fluorosilicate and has a chemical formula of  $\text{Na}_2\text{SiF}_6$ .

The Council intends on trialling the following:

- The name of the company is Shimonoseki Mitsu Chemicals of Japan and the New Zealand distributor is Consolidated Chemicals of Auckland.
- The product name is Sodium Fluorosilicate.

Yours faithfully



Wendy Collard  
Governance Support Officer

**MATERIAL SAFETY DATA SHEET**

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Revised edition no : 1

Date : 24 / 6 / 2011

Supersedes : 0 / 0 / 0

**FLUOPRAY™ SSF****PR-014****Producer**

PRAYON S.A  
Rue Joseph Wauters, 144  
B-4480 Engis Belgique-Belgium  
Tel +32 (0)4 273 92 11  
Fax +32 (0)4 273 96 35  
In case of emergency : +32 (0)70 245 245

**New Zealand Importer**

D C ROSSER & CO LTD  
UNIT B, 14 OMEGA ST  
ALBANY, AUCKLAND 0751 NEW ZEALAND  
TEL: +64 09 4141964  
FAX: +64 09 4141965  
E-MAIL: [INFO@DCROSSER.CO.NZ](mailto:INFO@DCROSSER.CO.NZ)

**Synonyms**

Sodium hexafluorosilicate  
Sodium fluorosilicate

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Chemical name	Disodium hexafluorosilicate
Trade name	FLUOPRAY™ SSF
Chemical formula	Na <sub>2</sub> SiF <sub>6</sub>
EC number	240-934-8
Reach registration number	01-2119519245-43-0002
CAS number	18893-85-9



# CONSOLIDATED CHEMICAL CO.

ACN 005 056 502

52-62 Waterview Close, DANDENONG SOUTH, 3175  
P.O. BOX 4415, DANDENONG SOUTH, 3164, VIC., AUSTRALIA

PHONE (03) 9799 7555 FAX (03) 9799 7666

E-mail: sales@conchem.com.au

Website: www.conchem.com.au

## CERTIFICATE OF ANALYSIS

### PRODUCT: SODIUM SILICOFLUORIDE

ITEM	UNIT	SPECIFICATION	TESTED VALUE
Fluoride Content	%	-	60.1
Sodium Fluorosilicate	%	>98	99.2
Insoluble Matter - typical	%	≤ 0.50	0.12
Moisture – typical	%	≤ 0.50	0.12
Heavy metals, as lead	%	≤ 0.05	0.0103
<b>Screens</b>			
+ 40	%	-	0.00
+ 60	%	-	0.1
+ 100	%	-	7.6
+ 200	%	-	62.5
+ 325	%	-	20.8
- 325	%	≤ 25.0	9.0

This product has been analysed and found to meet the specification requirements.

*The content of the Certificate of Analysis is produced by Consolidated Chemical Co. from information provided by the manufacturer/supplier of the chemical. Whilst Consolidated Chemical Co. takes care in compilation of the information in the Certificate of Analysis, Consolidated Chemical Co. does not warrant the accuracy of the information and the customer must satisfy itself as to the suitability of the goods for the customer's purpose.*

**OFFICES IN SYDNEY, ADELAIDE, PERTH, BRISBANE, AUCKLAND**



The only manufacturer of Sodium Fluorosilicate and Potassium Fluorosilicate on the North American Continent.

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## SODIUM FLUOROSILICATE

### SODIUM FLUOROSILICATE

(SODIUM SILICOFLUORIDE)

( $\text{Na}_2\text{SiF}_6$ )

CAS Registry No. 16893-85-9

Sodium Fluorosilicate is a dry, white, free-flowing, crystalline chemical. It is ANSI NSF-60 approved and meets AWWA Standards.

Dust may cause irritation of eyes, skin, mucous membranes, and respiratory tract. Wear appropriate personal protective equipment. Refer to the Material Safety Data Sheet for additional information.

#### SPECIFICATIONS      RANGE

$\text{Na}_2\text{SiF}_6$  > 98.0 %

Moisture < 0.50 %

Insoluble Matter < 0.50 %

## **PHYSICAL PROPERTIES**

### **Screen Analysis, US Standard Screen**

**-40 Mesh 100.0 %**

**-325 Mesh < 25.0 %**

**Bulk Density (Lb/Ft<sup>3</sup>) 85-90**

## **SHIPPING INFORMATION**

### **Container:**

**Multi-ply Paper Bags – Palletized on Piggyback and Van Trucks.**

**Bulk shipped in hopper trucks.**

**Weight Bagged: 50 Pounds Net and Super Sacks**

**Additional Packaging may be available on request.**

**Shipping Point: Mulberry, Fl.**

**The information contained in this data sheet is believed to be a true and accurate representation of average properties from commercial production lots and should not be considered guaranteed specifications. Any recommendations or suggestions are made without warranty or guarantee since the conditions of use are beyond our control. Nothing shall be construed to imply the permission, inducement, or recommendation to practice any invention or patent by KC Industries or by others without authorization from the owner of the patent.**

### **Contact Us:**

**KC INDUSTRIES, LLC  
P.O. Box 646  
Mulberry, Fl 33860**

**SODIUM SILICOFLUORIDE**  
**NET 25 kg**



**MANUFACTURER**  
**SHIMONOSEKI MITSUI CHEMICALS, INC.**  
**SHIMONOSEKI JAPAN**

Ⓜ 5M2/Z-25.5/S/12/J/HK/KR