

File MH28896
Project 03NK04739

2003-05-27

REPORT

on

DRINKING WATER TREATMENT ADDITIVES

Under The

CLASSIFICATION PROGRAM

Changsha Tati Chemical Co., Ltd.
Changsha Huan, CHINA

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DESCRIPTION

PRODUCT COVERED:

"Sodium Fluoride"
"Sodium Fluorosilicate"

GENERAL CHARACTER AND USE:

These products are miscellaneous treatment application products
Classified for use with potable water.

FACTORY LOCATION:

Tati-You County Fine Chemical Factory, Zhuzhou City, China

MARKING:

Products covered by this Report are considered UL Classified when they bear: the UL Classification Marking, the name of the Classified Company, the designation of the product, a factory identification (if applicable), and the following maximum use level restrictions:

<u>Product</u>	<u>Maximum Use Level, mg/L</u>
"Sodium Fluoride"	2.6
"Sodium Fluorosilicate"	2.0

The marking may be inked or painted onto the container of the product or printed on a label applied to the product container.

ALTERNATIVE MARKING:

As an alternative to the application of the UL Classification Mark onto the container of the product, a certificate conforming to UL requirements may be utilized.

TEST RECORD NO. 1

GENERAL:

Complete formulation information was provided for the products covered by this Report. The test program described below was developed for the evaluation of the products with respect to the applicable requirements of ANSI/NSF 60 - 2002, and representative samples were tested accordingly. The resulting test data were analyzed and found to comply with the requirements of that Standard.

A sample of the Sodium Fluoride covered by this report was prepared and analyzed for regulated metals and radionuclides and a sample of the Sodium Fluorosilicate was prepared and analyzed for regulated metals.

Test results relate only to the items tested.

SAMPLES:

Samples of sodium fluoride and sodium fluorosilicate were collected in accordance with the requirements in ANSI/NSF Standard 60.

SAMPLE PREPARATION:

Samples of sodium fluoride and sodium fluorosilicate were prepared in accordance with the requirements in ANSI/NSF Standard 60.

All prepared samples collected for analysis were preserved and bottled according to the requirements of the chemical analysis. Exposure blanks were prepared for all chemical analyses by repeating the entire preparation procedure without sample.

ANALYTICAL METHODS:

Regulated Metals: Concentrations determined in accordance with EPA Series 200 Drinking Water Methodologies.

Radionuclides: Concentrations determined in accordance With EPA Method 900.0.

NORMALIZATION:

The concentrations of the contaminants obtained from the laboratory analysis were adjusted (normalized) to represent estimated levels expected in finished drinking water. The normalized contaminant concentrations were compared to the Single Product Allowable Concentration (SPAC) if these levels are established. The concentration of a contaminant expected in the finished drinking water was estimated using the following equations:

Normalized Concentration = (Laboratory Concentration) X (Normalization Factor)

Where:

Laboratory Concentration = Data obtained from specified test, ug/L.

$$\text{Normalization Factor (NF)} = \frac{\text{Evaluation Dose} \times \text{Lab Prep Solution}}{\text{Mass Fraction}}$$

Evaluation Dose = As defined by either ANSI/NSF Standard 60 or toxicological review, mg/L.

Lab Prep Solution = Volume of Analysis Solution, L/Weighed Product, mg.

Mass Fraction = Mass of specified additive Mass of total product.

For the Sodium Fluoride:

Evaluation Dose = 2.6 mg/L

Lab Prep Solution = 1.0 L/ 13.3 mg

Mass Fraction = 1.0

Therefore:

$$\text{NF} = \frac{2.6 \text{ mg/L} \times 1.0 \text{ L}/13.3 \text{ mg}}{1.0} = 0.195$$

For the Sodium Fluorosilicate:

Evaluation Dose = 2.0 mg/L

Lab Prep Solution = 0.25 L/ 4.3 mg

Mass Fraction = 1.0

Therefore:

$$\text{NF} = \frac{2.0 \text{ mg/L} \times 0.25 \text{ L}/4.3 \text{ mg}}{1.0} = 0.116$$

RESULTS

Product Use: Miscellaneous treatment application products

Regulated Metals Analysis
By EPA 200 Series Methods
Blank Adjusted Normalized Results
For Sodium Fluoride

Reference Numbers: 09203J and 100030

Parameter	Concentration	MRL	Units
Antimony	<0.02	0.1	µg/L
Arsenic	<0.20	1.0	µg/L
Barium	<1.95	10.0	µg/L
Beryllium	<0.06	0.3	µg/L
Cadmium	<0.02	0.1	µg/L
Chromium	<0.20	1	µg/L
Copper	2.00	10	µg/L
Lead	<0.10	0.5	µg/L
Mercury	<0.02	0.1	µg/L
Nickel	<0.20	1	µg/L
Selenium	<0.39	2.0	µg/L
Thallium	<0.02	0.1	µg/L

Radionuclides Analysis
By EPA Method 900
Blank Adjusted Normalized Results
For Sodium Fluoride

Parameter	Concentration	MRL	Units
Gross alpha	<0.1	15	pCi/L
Gross beta	0.4	4	mrem ede/yr

Note: While the current MCL for Gross Beta = 4 mrem ede/yr, the low screening level for gross beta contamination is 30 pCi/L, and values meeting this level are in compliance. If values exceed this limit, the sample must be analyzed to identify the individual beta emitters.

Regulated Metals Analysis
By EPA 200 Series Methods
Blank Adjusted Normalized Results
For Sodium Fluorosilicate

Reference Numbers: 09203J and 100030

Parameter	Concentration	MRL	Units
Antimony	<0.01	0.1	µg/L
Arsenic	<0.12	1.0	µg/L
Barium	<1.16	10.0	µg/L
Beryllium	<0.03	0.3	µg/L
Cadmium	<0.01	0.1	µg/L
Chromium	<0.12	1	µg/L
Copper	<1.16	10	µg/L
Lead	<0.06	0.5	µg/L
Mercury	<0.01	0.1	µg/L
Nickel	<0.12	1	µg/L
Selenium	<0.23	2.0	µg/L
Thallium	<0.01	0.1	µg/L

CONCLUSION

The products are judged to be eligible for Classification and Follow-Up Service. The manufacturer is authorized to use the Laboratories' Classification Marking on such products which comply with the Follow-up Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the Laboratories' Classification Marking are considered as Classified by Underwriters Laboratories Inc.

Reported by:

Reviewed by:

KATHERINE J. NAWARA
Associate Project Engineer

RICHARD WINTON
Engineering Group Leader

DESCRIPTION

PRODUCT COVERED:

"Sodium Fluoride"
"Sodium Fluorosilicate"

GENERAL CHARACTER AND USE:

These products are miscellaneous treatment application products
Classified for use with potable water.

MANUFACTURING PROCESS:

The sodium fluorosilicate is a by-product of the phosphate fertilizer.

The sodium fluoride is obtained from decomposing the sodium
fluorosilicate in alkali solution.

The products covered are formulated in whole or in part with the following
chemicals provided from the specified supplier.

**Expired suppliers shall not be used in the manufacture of UL Certified
product. Prior to using an expired supplier, contact UL for re-evaluation of
the supplier**

"Sodium Fluorosilicate"

<u>Manufacturer's Chemical Designation</u>	<u>Chemical Description</u>	<u>Supplier</u>	<u>Supplier's Certification Documentation</u>	<u>Expiration Date</u>
Phosphate fertilizer	Phosphate fertilizer	Yunan Guangmin Phosphate Chemical Factory	None	10/2014

"Sodium Fluoride"

<u>Manufacturer's Chemical Designation</u>	<u>Chemical Description</u>	<u>Supplier</u>	<u>Supplier's Certification Documentation</u>	<u>Expiration Date</u>
Alkali Solution	Caustic	Yunan Guangmin Phosphate Chemical Factory	None	10/2014
Sodium Fluorosilicate	Sodium Fluorosilicate	Tati-You County Fine Chemical Factory	UL	NA

DESCRIPTION

PRODUCT COVERED:

"Sodium Fluoride"
 "Sodium Fluorosilicate"

GENERAL CHARACTER AND USE:

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MANUFACTURING PROCESS:

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 fluorosilicate in alkali solution.

The products covered are formulated in whole or in part with the following
 chemicals provided from the specified supplier.

"Sodium Fluorosilicate"

<u>Manufacturer's Chemical Designation</u>	<u>Chemical Description</u>	<u>Supplier</u>	<u>Supplier's Certification Documentation</u>	<u>Expiration Date</u>
Phosphate fertilizer	Phosphate fertilizer	Yunan Guangmin Phosphate Chemical Factory	None	NA

"Sodium Fluoride"

<u>Manufacturer's Chemical Designation</u>	<u>Chemical Description</u>	<u>Supplier</u>	<u>Supplier's Certificatio n Documentatio n</u>	<u>Expiration Date</u>
Alkali Solution	Caustic	Yunan Guangmin Phosphate Chemical Factory	None	NA
Sodium Fluorosilicate	Sodium Fluorosilicat e	Tati-You County Fine Chemical Factory	UL	NA

DESCRIPTION

PRODUCT COVERED:

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The sodium fluoride is obtained from decomposing the sodium
 fluorosilicate in alkali solution.

The products covered are formulated in whole or in part with the following
 chemicals provided from the specified supplier.

"Sodium Fluorosilicate"

<u>Manufacturer's Chemical Designation</u>	<u>Chemical Description</u>	<u>Supplier</u>	<u>Supplier's Certification Documentation</u>
Phosphate fertilizer	Phosphate fertilizer	Yunan Guangmin Phosphate Chemical Factory	None

"Sodium Fluoride"

<u>Manufacturer's Chemical Designation</u>	<u>Chemical Description</u>	<u>Supplier</u>	<u>Supplier's Certification Documentation</u>
Alkali Solution	Caustic	Yunan Guangmin Phosphate Chemical Factory	None
Sodium Fluorosilicate	Sodium Fluorosilicate	Tati-You County Fine Chemical Factory	UL

MANUFACTURER'S QUALITY CONTROL/QUALITY ASSURANCE PROGRAM:

Product: Sodium Fluoride and Sodium Fluorosilicate

1. Raw Material, In-process, and Finished product Test according to China Standard: GB 8157-87
Method: Strictly control the quality of the final product in order to meet the standard of quality.
Documentation: Hard copy and electronically retained for 3 years.
Frequency: 3 times each day.
Accept/reject criteria: Must meet standard of quality

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

The following information is intended to provide guidance to those testing samples selected as part of UL's Follow-Up Service Inspection Program.

"Sodium Fluoride"

Test Method - ANSI/NSF Standard 60, Appendix B, Section 7, Method B.

Test Parameter - Regulated Metals and Radionuclides.

Normalization -

<u>Evaluation Dose, mg/L</u>	<u>Mass Fraction</u>
2.6	1.0

"Sodium Fluorosilicate"

Test Method - ANSI/NSF Standard 60, Appendix B, Section 7, Method B.

Test Parameter - Regulated Metals.

Normalization -

<u>Evaluation Dose, mg/L</u>	<u>Mass Fraction</u>
2.0	1.0

MARKING:

Products complying with all of the details of the description indicated in this Section are considered UL Classified when they bear: the UL Classification Marking, the name of the Classified Company, the designation of the product, a factory identification specified in Section General (if applicable), and the following maximum use level restrictions:

<u>Product</u>	<u>Maximum Use Level, mg/L</u>
Sodium Fluoride	2.6
Sodium Fluorosilicate	2.0

The marking may be inked or painted onto the container of the product or printed on a label applied to the product container.

ALTERNATIVE MARKING:

As an alternative to the application of the UL Classification Mark onto the container of the product, a certificate may be utilized; see Classification Marking Data Page 3.

MARKING:

Products complying with all of the details of the description indicated in this Section are considered UL Classified when they bear: the UL Classification Marking, the name of the Classified Company, the designation of the product, a factory identification specified in Section General (if applicable), and the following maximum use level restrictions:

<u>Product</u>	<u>Maximum Use Level, mg/L</u>
Sodium Fluoride	1.2
Sodium Fluorosilicate	1.2

The marking may be inked or painted onto the container of the product or printed on a label applied to the product container.

ALTERNATIVE MARKING:

As an alternative to the application of the UL Classification Mark onto the container of the product, a certificate may be utilized; see Classification Marking Data Page 3.

CERTIFICATE OF COMPLIANCE

Certificate Number 20121210 – MH28896
Report Reference MH28896 - 20030528
Issue Date 2012-December-10

Issued to: SHANGHAI MINTCHEM DEVELOPMENT CO LTD
Room 602 4
89 Nong Mudan Rd
Pudong Zone
200000 Shanghai, China

**This is to certify that
representative samples of**

Drinking Water Treatment Chemicals

Trade Dsg	Category	Maximum Use Level, mg/L
Sodium Fluoride	Miscellaneous Treatment Application Products	2.6
Sodium Fluorosilicate	Miscellaneous Treatment Application Products	2.0

Plant at: Zhuzhou City, China

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: NSF/ANSI 60 (2009 a), "Drinking Water Treatment Chemicals - Health Effects."

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Classification Mark should be considered as being covered by UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle: with the word "CLASSIFIED"  (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.



William R. Carney, Director, North American Certification Programs

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus



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APPENDIX A

UL REPRESENTATIVE'S DUTIES AND INSTRUCTIONS
FOR EXAMINATION OF THE PRODUCT

UL REPRESENTATIVE'S DUTIES:

The UL Representative's duties include, but are not limited to:

1. Examination of production eligible to bear the UL Marking to determine compliance with the description of the product, and any other requirements expressed in this Procedure.

2. Selection and forwarding of samples to UL for Follow-Up tests.

3. Review of the Manufacturer's test records and inspection of the Manufacturer's facilities to verify that the manufacturer's Quality Control/Quality Assurance procedures comply with the requirements described in this Appendix and in Sections of this Procedure.

4. Report to the manufacturer and Follow-Up Services Department by means of a Variation Notice (VN) if:

- A. Variations in the composition of the product are determined, making a notation "MANUFACTURERS CONFIDENTIAL PRODUCT INFORMATION" on the Variation Notice,
- B. The frequency of the manufacturer's testing is not as described,
- C. The records maintained by the manufacturer are not as described,
- D. The Manufacturer's inspection program is not being performed as described,
- E. Documentation from material suppliers is not available verifying the formulation and/or continued certification of the material, where so described.

5. When a product does not comply with the Follow-Up Services Procedure, require that the manufacturer either (1) remove from the product any marking reference to UL, or (2) suitably modify all products that do not comply with the Follow-Up Services Procedure, or (3) hold shipments pending further instructions from Follow-Up Services.

NOTE - ALL PRODUCTS MANUFACTURED AT THIS LOCATION THAT ARE IDENTIFIED WITH THE DESIGNATION OF A COVERED PRODUCT ARE SUBJECT TO THE REQUIREMENTS OF THIS PROCEDURE, INCLUDING SAMPLE SELECTION FOR FOLLOW-UP TESTING AS SPECIFIED IN APPENDIX B, REGARDLESS OF WHETHER THEY BEAR THE UL CLASSIFICATION MARKING OR NOT.

APPENDIX A

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FOR EXAMINATION OF THE PRODUCT

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1. Examination of production eligible to bear the UL Marking to determine compliance with the description of the product, and any other requirements expressed in this Procedure.
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4. Report to the manufacturer and Follow-Up Services Department by means of a Variation Notice (VN) if:
 - A. Variations in the composition of the product are determined, making a notation "MANUFACTURERS CONFIDENTIAL PRODUCT INFORMATION" on the Variation Notice,
 - B. The frequency of the manufacturer's testing is not as described,
 - C. The records maintained by the manufacturer are not as described,
 - D. The Manufacturer's inspection program is not being performed as described,
 - E. Documentation from material suppliers is not available verifying the formulation and/or continued certification of the material, where so described.
5. When a product does not comply with the Follow-Up Services Procedure, require that the manufacturer either (1) remove from the product any marking reference to UL, or (2) suitably modify all products that do not comply with the Follow-Up Services Procedure, or (3) hold shipments pending further instructions from Follow-Up Services.

NOTE - ALL PRODUCTS MANUFACTURED AT THIS LOCATION THAT ARE IDENTIFIED WITH THE DESIGNATION OF A COVERED PRODUCT ARE SUBJECT TO THE REQUIREMENTS OF THIS PROCEDURE, INCLUDING SAMPLE SELECTION FOR FOLLOW-UP TESTING AS SPECIFIED IN APPENDIX B, REGARDLESS OF WHETHER THEY BEAR THE UL CLASSIFICATION MARKING OR NOT.

*

INSTRUCTION FOR INSPECTION OF THE PRODUCT:

At each inspection, conduct a production walk-through to verify that all chemical ingredients/components used, the composition and manufacturing process, the Marking of the finished product and the Manufacturer's Quality Control/Quality Assurance Program are as specified in the applicable Section.

CHEMICAL COMPOSITION

A review of the following shall be made:

- A. The chemical names/trade names of raw materials,
- B. The name and, if applicable, the production location of the supplier of raw materials,
- C. The formulation and manufacturing process of the product covered.

MARKING

All Markings shall be as specified in the applicable Sections of this Procedure.

QUALITY CONTROL/QUALITY ASSURANCE

The quality control program of the manufacturer shall be reviewed by completing Form 3000-631Y and attaching it to the Inspection Report. See the applicable Sections for specific tests required for each product covered.

INSTRUCTION FOR INSPECTION OF THE PRODUCT:

At each inspection, conduct a production walk-through to verify that all chemical ingredients/components used, the composition and manufacturing process, the Marking of the finished product and the Manufacturer's Quality Control/Quality Assurance Program are as specified in the applicable Section.

CHEMICAL COMPOSITION

A review of the following shall be made:

- A. The chemical names/trade names of raw materials,
- B. The name and, if applicable, the production location of the supplier of raw materials,
- C. The formulation and manufacturing process of the product covered.

MARKING

All Markings shall be as specified in the applicable Sections of this Procedure.

QUALITY CONTROL/QUALITY ASSURANCE

The quality control program of the manufacturer shall be reviewed by completing Form 3000-631Y and attaching it to the Inspection Report. See the applicable Sections for specific tests required for each product covered.

*

APPENDIX B
INSTRUCTIONS TO THE UL REPRESENTATIVE
FOR SAMPLE PICK-UP

GENERAL:

Samples of the material identified below shall be selected by the UL representative from current (or recent) production for verification testing at UL. If a current production sample is not available, select a retain sample that was produced within the last six months. THESE SAMPLES SHALL BE SELECTED REGARDLESS OF WHETHER A UL CLASSIFICATION MARK IS BEING USED OR NOT. This Appendix contains specific guidelines describing the procedure for selecting samples and the written records required to accompany them. READ THIS ENTIRE APPENDIX BEFORE BEGINNING TO SELECT SAMPLES.

A representative sample of the product/material shall be obtained with requirements outlined below. No samples shall be taken from a broken or leaky container.

Solid Samples:**Sampling from Bulk**

Five individual samples approximately 100 g each shall be obtained from various depths or sectors of the bulk storage vessel. The individual samples shall be combined and thoroughly mixed to form a single composite sample that is approximately 500 g. This composite will then be further divided as described in "Sample for Analysis."

Sampling from Packages

A composite sample from packaged lots, where bulk storage is not available, shall be obtained from approximately 5% of the containers in the lot. There shall be a minimum of 5 and a maximum of 15 containers sampled. If fewer than 5 containers are available, the sampling procedure shall be identical to those used for sampling from bulk. The individual samples shall be combined and thoroughly mixed to form a single 500 g composite. This composite will then be further divided as described in "Sample for Analysis."

Sampling from Production

If sampling from bulk or packages is not possible, composite samples obtained and composited by the manufacturer's sampling procedure during production shall be acceptable if the procedures used result in a representative sample, as determined by UL. This composite will then be further divided as described in "Sample for Analysis."

Sample for Analysis

The composite sample obtained above shall be mixed thoroughly and then divided into three 165 g aliquots stored in airtight, moisture-proof glass containers and sealed. If a glass container is not appropriate, the manufacturer shall recommend the type of sample container. Each container shall be labeled with the product name, type of container sampled, manufacturer's name, sampling date, production location, lot number, and be signed by the person responsible for sampling. One sample is used for analysis. The remaining two samples are retained for up to one year by the manufacturer for reevaluation purposes.

APPENDIX B

INSTRUCTIONS TO THE UL REPRESENTATIVE
FOR SAMPLE PICK-UP

GENERAL:

Samples of the material identified below shall be selected by the UL representative from current (or recent) production for verification testing at UL. THESE SAMPLES SHALL BE SELECTED REGARDLESS OF WHETHER A UL CLASSIFICATION MARK IS BEING USED OR NOT. This Appendix contains specific guidelines describing the procedure for selecting samples and the written records required to accompany them. READ THIS ENTIRE APPENDIX BEFORE BEGINNING TO SELECT SAMPLES.

SAMPLES:

Once each year each of the following types of samples shall be tagged, marked with the appropriate identification, and forwarded to the Northbrook Office to the attention of Follow-Up Services in the quantities and sizes indicated.

<u>Product Name</u>	<u>Sampling Description</u>
Sodium Fluorosilicate	A composite sample shall be obtained by selecting five individual samples of approximately 100 g, from either various depths or sectors of the bulk storage vessel. The five samples shall be combined into a single 500 g sample.
Sodium fluoride	A composite sample shall be obtained by selecting five individual samples of approximately 100 g, from either various depths or sectors of the bulk storage vessel. The five samples shall be combined into a single 500 g
Sample Container	

* Unless otherwise specified, all samples selected shall be stored and shipped in an air-tight, moisture-proof, high density polyethylene container supplied by the manufacturer.

*

Gas Samples

A representative sample shall be obtained using an appropriate gas-sampling cylinder. The sample shall be acquired in accordance with the manufacturer's specifications and precautions.

SAMPLES:

Once each year the following samples shall be tagged, marked with the appropriate identification, and forwarded to the Northbrook Office to the attention of Follow-Up Services in the quantities and sizes indicated.

SPECIFY SAMPLES TO BE SELECTED

<u>Product Name</u>	<u>Sampling Description</u>
Sodium Fluorosilicate	A composite sample shall be obtained by selecting five individual samples of approximately 100 g, from either various depths or sectors of the bulk storage vessel. The five samples shall be combined into a single 500 g sample.
Sodium fluoride	A composite sample shall be obtained by selecting five individual samples of approximately 100 g, from either various depths or sectors of the bulk storage vessel. The five samples shall be combined into a single 500 g

Sample Tag (3000-217)

A separate sample tag shall be completed in the usual manner for each product selected. If more than one sample of a given product is selected, indicate the number of samples selected on the tag and forward all samples under one sample tag.

Chain of Custody Record

The Chain of Custody Record form creates a written record that traces the possession and handling of sample(s) from the point of collection through analysis.

A chain of Custody Record form must be completed for each shipment of samples.

A chain of custody record form shall be enclosed in a plastic bag and taped to the outside of the packaging material so that it may be signed by the relinquisher and receiver when the samples change custody.

The chain of custody record form can be used to identify more than one sample, provided the samples shipped together are in the same package.

When entering the information required of the chain of custody form, supply the information in accordance with the following instructions which reference the numerals on the illustrations in this Procedure.

Sample Container Labels

All containers shall be sealed with the UL "Sealed Sample" sticker.

All containers shall employ an adhesive label identifying the following information:

1. The manufacturer's name and file number
2. The lot number from which the sample was selected
3. The date the sample was selected
4. The time (24 hour format) the sample was selected
5. The sample type: "composite" or "grab".

Composite: Samples selected from more than one location which are combined or mixed to form a single sample

Grab: Individual sample selected from one location

Note: Unless otherwise indicated in the sample selection instructions, the grab method shall be utilized to select samples.

6. The UL Representative's initials.

Sample Tag (3000-217)

A separate sample tag shall be completed in the usual manner for each product selected. If more than one sample of a given product is selected, indicate the number of samples selected on the tag and forward all samples under one sample tag.

*

1. File & Volume # Print the file number and Procedure volume
2. Applicant Print the Applicant's name as specified on the Authorization page
3. Project Number Not applicable for Follow-Up sample selection
4. Manufacturer's name Print the manufacturer's name as specified on the Authorization page
5. Sample ID Not applicable. For NBK Office use only.
6. Date Print the date the sample was selected
7. Time Print the time (24 hour format) that the sample was selected.
8. Composite Enter a check mark if the sample selected represents a composite sample (samples selected from more than one location which are combined and mixed to form a single sample.)
9. Grab Enter a check mark if the sample selected represents an individually grabbed sample.
10. Collection Location Print the location and lot number from which samples were selected. Three examples follow:
 - A. Bulk Storage tank # (x); depths (x) ft., (x) ft., and (x) ft.; and Lot no. (x);
 - B. Tanker truck Lot No. (x)
 - C. (x) lb. bag, Lot No. (x)
11. Number of Containers Enter the total number of sample containers used per sample collection location.

Chain of Custody Record

The Chain of Custody Record form creates a written record that traces the possession and handling of sample(s) from the point of collection through analysis.

A chain of Custody Record form must be completed for each shipment of samples.

A chain of custody record form shall be enclosed in a plastic bag and taped to the outside of the packaging material so that it may be signed by the relinquisher and receiver when the samples change custody.

The chain of custody record form can be used to identify more than one sample, provided the samples shipped together are in the same package.

When entering the information required of the chain of custody form, supply the information in accordance with the following instructions which reference the numerals on the illustrations in this Procedure.

1. File & Volume # Print the file number and Procedure volume
2. Applicant Print the Applicant's name as specified on the Authorization page
3. Project Number Not applicable for Follow-Up sample selection
4. Manufacturer's name Print the manufacturer's name as specified on the Authorization page
5. Sample ID Not applicable. For NBK Office use only.
6. Date Print the date the sample was selected
7. Time Print the time (24 hour format) that the sample was selected.
8. Composite Enter a check mark if the sample selected represents a composite sample (samples selected from more than one location which are combined and mixed to form a single sample.)
9. Grab Enter a check mark if the sample selected represents an individually grabbed sample.

*

12. Required Tests Not applicable. For Reviewing Office use only.
13. Remarks/
Descriptions (1) Print sample tag numbers from form 3000-217
- (2) Print the information as described in the Procedure that defines the identification of the sample. Enter as much information as needed to fully describe the product selected, such as:
- Calcium oxide
O-Ring Seals, Six (xxx)
Powdered Activated Carbon (xxx)
Granular Activated Carbon 8 x 30 mesh
Calcium Hydroxide
Tee Pipe Fitting, (x) Diameter
14. Relinquished by The signature of the UL Representative relinquishing custody of the sample(s) and the date and time (24 hour format) relinquished.
15. Received by The signature of the manufacturer's representative receiving custody of the sample(s) and the date and time received. This date and time will generally be the same recorded for Item 14.
- Note: Relinquished and received signatures shall be completed each time physical custody of the samples changes. For example, the signature process must be repeated when the manufacturer's representative relinquishes custody of the sample(s) to the courier, and once again when the courier relinquishes custody to the Northbrook Office. Please advise the manufacturer accordingly.
16. Safety Considerations Print the manufacturer's recommendations or instructions, if any, concerning the safety of shipping the samples. Material Safety Data Sheet(s) (MSDS) may also be supplied with the Chain of Custody form.
17. Sampler's Signature The signature of the UL Representative that selected the samples.
18. Project Handler Not applicable. To be completed by the reviewing office.

After the form has been completely filled out, distribute the four copies (1. White, 2. yellow, 3. pink, and 4. gold) as follows:

The white and yellow copies shall be attached to the outside of the packaging material.

The pink copy may be retained by the manufacturer.

The gold copy shall be retained by the UL Representative

10. Collection Location Print the location and lot number from which samples were selected. Three examples follow:
- A. Bulk Storage tank # (x); depths (x) ft., (x) ft., and (x) ft.; and Lot no. (x);
 - B. Tanker truck Lot No. (x)
 - C. (x) lb. bag, Lot No. (x)
11. Number of Containers Enter the total number of sample containers used per sample collection location.
12. Required Tests Not applicable. For Reviewing Office use only.
13. Remarks/ Descriptions
- (1) Print sample tag numbers from form 3000-217
 - (2) Print the information as described in the Procedure that defines the identification of the sample. Enter as much information as needed to fully describe the product selected, such as:
 - Calcium oxide
 - O-Ring Seals, Six (xxx)
 - Powdered Activated Carbon (xxx)
 - Granular Activated Carbon 8 x 30 mesh
 - Calcium Hydroxide
 - Tee Pipe Fitting, (x) Diameter
14. Relinquished by The signature of the UL Representative relinquishing custody of the sample(s) and the date and time (24 hour format) relinquished.
15. Received by The signature of the manufacturer's representative receiving custody of the sample(s) and the date and time received. This date and time will generally be the same recorded for Item 14.

Note: Relinquished and received signatures shall be completed each time physical custody of the samples changes. For example, the signature process must be repeated when the manufacturer's representative relinquishes custody of the sample(s) to the courier, and once again when the courier relinquishes custody to the Northbrook Office. Please advise the manufacturer accordingly.

16. Safety Considerations Print the manufacturer's recommendations or instructions, if any, concerning the safety of shipping the samples. Material Safety Data Sheet(s) (MSDS) may also be supplied with the Chain of Custody form.
17. Sampler's Signature The signature of the UL Representative that selected the samples.
18. Project Handler Not applicable. To be completed by the reviewing office.

After the form has been completely filled out, distribute the four copies (1. White, 2. yellow, 3. pink, and 4. gold) as follows:

The white and yellow copies shall be attached to the outside of the packaging material.

The pink copy may be retained by the manufacturer.

The gold copy shall be retained by the UL Representative.

DRINKING WATER TREATMENT CHEMICALS (FDPH)

SAMPLES TO BE SELECTED **ON AN ANNUAL BASIS:**

- Sodium Fluorosilicate
- Sodium Fluoride

Additional Information:

PLEASE NOTE THE INGREDIENT SUPPLIERS USED TO MANUFACTURE THE CERTIFIED PRODUCT ON THE BACK OF THE FUS TAG

DRINKING WATER TREATMENT CHEMICALS (FDPH)

SAMPLES TO BE SELECTED:

- Sodium Fluorosilicate
- Sodium Fluoride

Additional Information:

Please record the supplier(s) of Phosphate fertilizer and Sodium Hydroxide on the back of the FUS tag.

DRINKING WATER TREATMENT CHEMICALS (FDPH)

SAMPLES TO BE SELECTED:

- Sodium Fluorosilicate
- Sodium Fluoride

*

APPENDIX C

INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

WATER SYSTEMS PROGRAM, DEPARTMENT 3618AWTR:

Samples forwarded by the UL representative shall be prepared in accordance with the applicable section of ANSI/NSF Standard 60 (current issue date). The resulting prepared samples shall then be subjected to the tests specified in the applicable Sections of this Procedure using the methods described below. Data obtained from these tests shall be normalized using the following equation and the parameters specified in the applicable Section. Normalized results shall be in compliance with ANSI/NSF Standard 60, Drinking Water Treatment Additives - Health Effects.

NORMALIZATION

$$\text{Normalized Concentration} = \frac{\text{Laboratory Concentration} \times \text{Evaluation Dose} \times \text{Lab Prep Solution}}{\text{Mass Fraction}}$$

Where:

Laboratory Concentration = Data obtained from specified test, ug/L

Evaluation Dose = As defined by either ANSI/NSF Standard 60 or toxicological review, mg/L

Lab Prep Solution = Volume of Analysis Solution, L/Weighed Product, mg

Mass Fraction = Mass of specified additive / Mass of total product

METHOD

Regulated Metals	Concentrations are determined in accordance with EPA Method 200.8
Radionuclides	Concentrations are determined in accordance with EPA Method 7110B

APPENDIX C

INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

WATER SYSTEMS PROGRAM, DEPARTMENT 3618AWTR:

Samples forwarded by the UL representative shall be prepared in accordance with the applicable section of ANSI/NSF Standard 60 (current issue date). The resulting prepared samples shall then be subjected to the tests specified in the applicable Sections of this Procedure using the methods described below. Data obtained from these tests shall be normalized using the following equation and the parameters specified in the applicable Section. Normalized results shall be in compliance with ANSI/NSF Standard 60, Drinking Water Treatment Additives - Health Effects.

NORMALIZATION

$$\text{Normalized Concentration} = \frac{\text{Laboratory Concentration} \times \text{Evaluation Dose} \times \text{Lab Prep Solution}}{\text{Mass Fraction}}$$

Mass Fraction

Where:

Laboratory Concentration = Data obtained from specified test, ug/L

Evaluation Dose = As defined by either ANSI/NSF Standard 60 or toxicological review, mg/L

Lab Prep Solution = Volume of Analysis Solution, L/Weighed Product, mg

Mass Fraction = Mass of specified additive / Mass of total product

METHOD

Product	Analysis	Method
Sodium Fluorosilicate	Regulated Metals	Concentrations shall be determined using EPA method 200.8
Sodium Fluoride	Regulated Metals	Concentrations shall be determined using EPA method 200.8
	Radionuclides	Concentrations shall be determined using EPA method 900

*

APPENDIX D

MANUFACTURER'S RESPONSIBILITIES AND
REQUIREMENTS FOR FACTORY TESTS

MANUFACTURER'S RESPONSIBILITIES:

The manufacturer shall establish and maintain a program of production, inspection and tests to verify compliance with UL's requirements. The manufacturer's program shall be aimed primarily at detecting any nonconformity during production that would result in the product not complying with UL requirements, and implementing the means to prevent its reoccurrence.

The manufacturer shall restrict the use of the marking that references UL (either directly or by use of the name, an abbreviation of it, or the UL symbol, or indirectly by means of agreed-upon markings that are understood to indicate acceptance by UL) to those products that are found by the manufacturer's own inspection to comply with the Follow-Up Service Procedure description. Use of such markings is further limited by the agreements that have been executed by the subscriber and UL.

The manufacturer shall determine that the test equipment is functioning properly and shall have it calibrated annually, or whenever it has been subjected to abuse (such as being dropped or struck with an object) or its accuracy is questionable. Calibration may be by the manufacturer or an outside laboratory. In either case, it shall be by comparison with a standard that is traceable to the applicable National Standard. Certification of calibration shall be maintained by the manufacturer until the next succeeding certification, and shall be readily available for review by the UL representative.

The manufacturer shall maintain records of incoming material and test performance. The records shall include the chemical name of the raw material, the supplier of the raw material, the supplier's location, the trade designation, if any, the production line and finished product test results and the tests performed on the product. Records shall be maintained by a minimum of 12 months and shall be readily available for review by the UL representative.

APPENDIX D

MANUFACTURER'S RESPONSIBILITIES AND
REQUIREMENTS FOR FACTORY TESTS

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Issued: 2003-05-28

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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

DRINKING WATER TREATMENT CHEMICALS
(FDPH)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 1069019 (Party Site)
(100123-379) SHANGHAI MINTCHEM DEVELOPMENT CO LTD
ROOM 602 4
89 NONG MUDAN RD
PUDONG ZONE
SHANGHAI,
200000 CHINA

Listee/Classified Co.: 1069019 (Party Site)
(100123-379) SAME AS APPLICANT

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party and any applicable Service Terms. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: <http://www.ul.com/fus> and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: <http://www.ul.com/responsibilities>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the applicable Service Terms, please contact UL's Customer Service at <http://www.ul.com/global/eng/pages/corporate/contactus>, select a location and enter your request, or call the number listed for that location.

The Applicant, the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable agreement is a Global Services Agreement ("GSA") with an effective date of January 1, 2012 or later and this Follow-Up Service Procedure is issued on or after that effective date, the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service fees which will incorporate such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking here: <http://www.ul.com/contracts/Terms-After-12-31-2011>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

It is the responsibility of the Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

William R. Carney
Director
North American Certification Program

LOCATION

(757612-001) 352364 (Party Site)
YOU COUNTY FINE CHEMICAL FACTORY
YOU COUNTY
ZHUZHOU HUNAN CHINA

Factory ID:
UL Contracting Party for above site is: UL AG

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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

DRINKING WATER TREATMENT CHEMICALS
(FDPH)

Manufacturer: YOU COUNTY FINE CHEMICAL FACTORY
(757612-001) YOU COUNTY
ZHUZHOU HUNAN CHINA

Applicant: SHANGHAI MINTCHEM DEVELOPMENT CO LTD
(100123-379) ROOM 602 4
89 NONG MUDAN RD
PUDONG ZONE
SHANGHAI,
200000 CHINA

Classified Company: SAME AS APPLICANT
(100123-379)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. (UL) or any authorized licensee of UL, upon request.

This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc.(UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.



Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations



William R. Carney
Director
North American Certification Program

File MH28896

Vol 1

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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

DRINKING WATER TREATMENT CHEMICALS
(FDPH)

Manufacturer: YOU COUNTY FINE CHEMICAL FACTORY
(757612-001) YOU COUNTY
ZHUZHOU,
HUNAN CHINA

Applicant: SHANGHAI MINTCHEM DEVELOPMENT CO LTD
(100123-379) ROOM 602 4
89 NONG MUDAN RD
PUDONG ZONE
SHANGHAI,
200000 CHINA

Classified Company: SAME AS APPLICANT
(100123-379)

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Underwriters Laboratories Inc.



Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations



William R. Carney
Director
North American Certification Program

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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

DRINKING WATER TREATMENT CHEMICALS
(FDPH)

Manufacturer: YOU COUNTY FINE CHEMICAL FACTORY
(757612-001) YOU COUNTY
ZHUZHOU,
HUNAN CHINA

Applicant: SHANGHAI MINTCHEM DEVELOPMENT CO LTD
(100123-379) ROOM 602 4
89 NONG MUDAN RD
PUDONG ZONE
SHANGHAI CHINA

Classified Company: SAME AS APPLICANT
(100123-379)

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Underwriters Laboratories Inc.



Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations



William R. Carney
Director
North American Certification Program

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

DRINKING WATER TREATMENT CHEMICALS
(FDPH)

Manufacturer: YOU COUNTY FINE CHEMICAL FACTORY
(757612-001) YOU COUNTY
ZHUZHOU,
HUNAN CHINA

Applicant: SHANGHAI MINTCHEM DEVELOPMENT CO LTD
(100123-379) ROOM 602 4
89 NONG MUDAN RD
PUDONG ZONE
SHANGHAI CHINA

Classified Company: SAME AS APPLICANT
(100123-379)

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Underwriters Laboratories Inc.



Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations



William R. Carney
Director
North American Certification Program



FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

DRINKING WATER TREATMENT CHEMICALS
(FDPH)

Manufacturer: YOU COUNTY FINE CHEMICAL FACTORY
(757612-001) YOU COUNTY
ZHUZHOU,
HUNAN CHINA

Applicant: CHANGSHA TATI CHEMICAL CO LTD
(696919-001) 2703 RUILONGGE
LAODONG WEST RD
CHANGSHA HUNAN CHINA

Classified Company: SAME AS APPLICANT
(696919-001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc. (UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

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Underwriters Laboratories Inc.



Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations



William R. Carney
Director
North American Certification Program





Underwriters Laboratories Inc.®

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Revised

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

DRINKING WATER TREATMENT ADDITIVES
(FDPH)

Manufacturer: TATI-YOU COUNTY FINE CHEMICAL FACTORY
(757612-001) YOU COUNTY
ZHUSHOU HUNAN CHINA

Applicant: CHANGSHA TATI CHEMICAL CO LTD
(696919-001) 2703 RUILONGGE
LAODONG WEST RD
CHANGSHA HUAN CHINA

Classified Company: SAME AS APPLICANT
(696919-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

This PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC. and is not transferable.

UNDERWRITERS LABORATORIES INC.

A handwritten signature in cursive script, appearing to read 'A.W. Schaefer'.

A.W. Schaefer
Vice President and General Manager
US and Canadian Operations

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