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EVALUATION REPORT

Send To: C0307768

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China

Facility: C0307769

Tianjin Kaifeng Chemical Co., Ltd.
Yangkezhuang Village, Wangwenzhuang Town
XiQing District, Tianjin 300383
China

Result	PASS	Report Date	28-MAY-2025
Customer Name	Tianjin Kaifeng Chemical Co., Ltd.		
Tested To	NSF/ANSI/CAN 60		
Description	KF-70 solid		
Trade Designation	KF-70		
Test Type	Annual Collection		
Job Number	A-00517760		
Project Number	W0964300		
Project Manager	Jiali Hu		

This report documents the testing of the referenced product to the requirements of NSF/ANSI/CAN Standard 60 (Drinking Water Treatment Chemicals - Health Effects). This standard establishes minimum requirements for chemicals, the chemical contaminants, and impurities that are added to drinking water from drinking water treatment chemicals. Contaminants produced as by-products through reaction of the treatment chemical with a constituent of the drinking water are not covered by this Standard. Reference the "About the Standard" section at the end of this report for additional information about NSF/ANSI/CAN Standard 60 and the products covered under this Standard.

Thank you for having your product tested by NSF.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Scott E. Randall - Senior Manager Commercial Water

Date

27-MAY-2025



General Information

Standard: NSF/ANSI/CAN 60
Chemical Name: Calcium hypochlorite 99.5% w/w
Lot Number/Product Identifier: KF20250303
Monitor Code: A
Physical Description of Sample: solid
Tested DCC Number: DA08934
Trade Designation/Model Number: KF-70

Sample Id: S-0002203891
Description: KF-70 | solid
Sampled Date: 02-Apr-2025
Received Date: 21-Mar-2025

Tox Normalization Information:		Lab Normalization Information:	
Calculated NF	0.0709	Date exposure completed	02-APR-2025
Preparation method used	A	Final volume of solution	1 L
MUL	3 mg/L	Mass of material used	42.3 mg
Compound Reference Key:	SPAC		

Normalization Calculation:

Normalized Result = Test Result (ug/L) * NF Where NF = MUL (mg/L) * $\frac{\text{Final Volume Of Solution (L)}}{\text{Mass of Material Used (mg)}}$

- MUL = Maximum Use Level;
- Mass of Material Used = The mass of sample analyzed in the laboratory;
- Final Volume of Solution = The volume of water used to dilute the sample;
- An additional factor may be used to adjust the analytical result to field use conditions to account for product carryover, flushing, or other assumptions stipulated with the use of the product. If an additional factor is used, it is included in the information above.

Testing Parameter	Units	Sample	Control	Result	Norm. Result	Acceptance Criteria(1)	Evaluation Status
NSF Shanghai Chemistry Lab							
Metals II in water by ICPMS (Ref: EPA 200.8)							
Arsenic	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)	1	Pass
Barium	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)	200	Pass
Beryllium	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.4	Pass
Cadmium	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.01)	0.5	Pass
Chromium	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)		
Copper	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)	130	Pass
Manganese	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)	12	Pass
Mercury	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.01)	0.2	Pass
Lead	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
Antimony	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.6	Pass
Selenium	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)	5	Pass
Thallium	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.01)	0.2	Pass
Aluminum	ug/L	13	ND(10)	13	0.89	290	Pass
Volatile Organic Compounds (Ref: EPA 524.2)							
Dichlorodifluoromethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.3	Pass
Chloromethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	3	Pass
Vinyl Chloride	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.2	Pass



Sample Id: S-0002203891

Testing Parameter	Units	Sample	Control	Result	Norm. Result	Acceptance Criteria(1)	Evaluation Status
NSF Shanghai Chemistry Lab (Continued)							
Bromomethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	1	Pass
Chloroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	40	Pass
Trichlorofluoromethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	50	Pass
Trichlorotrifluoroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.3	Pass
Methylene Chloride	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
1,1-Dichloroethylene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.7	Pass
trans-1,2-Dichloroethylene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	10	Pass
1,1-Dichloroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.3	Pass
2,2-Dichloropropane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.3	Pass
cis-1,2-Dichloroethylene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	7	Pass
Chloroform	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	[TTHM]	
Bromochloromethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	9	Pass
1,1,1-Trichloroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	20	Pass
1,1-Dichloropropene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
Carbon Tetrachloride	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
1,2-Dichloroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
Trichloroethylene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
1,2-Dichloropropane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
Bromodichloromethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	[TTHM]	
Dibromomethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
cis-1,3-Dichloropropene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.2	Pass
trans-1,3-Dichloropropene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.2	Pass
1,1,2-Trichloroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
1,3-Dichloropropane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	10	Pass
Tetrachloroethylene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
Chlorodibromomethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	[TTHM]	
Chlorobenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	10	Pass
1,1,1,2-Tetrachloroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	1	Pass
Bromoform	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	[TTHM]	
1,1,2,2-Tetrachloroethane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.2	Pass
1,2,3-Trichloropropane	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	4	Pass
1,3-Dichlorobenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	60	Pass
1,4-Dichlorobenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	7.5	Pass
1,2-Dichlorobenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	60	Pass
Carbon Disulfide	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)	70	Pass
Methyl-tert-Butyl Ether (MTBE)	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	8000	Pass
tert-Butyl ethyl ether	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	600	Pass
Methyl Ethyl Ketone	ug/L	ND(5)	ND(5)	ND(5)	ND(0.4)	400	Pass

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Sample Id: S-0002203891

Testing Parameter	Units	Sample	Control	Result	Norm. Result	Acceptance Criteria(1)	Evaluation Status
NSF Shanghai Chemistry Lab (Continued)							
Methyl Isobutyl Ketone	ug/L	ND(5)	ND(5)	ND(5)	ND(0.4)	700	Pass
Toluene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	6	Pass
Ethyl Benzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	14	Pass
m+p-Xylenes	ug/L	ND(1)	ND(1)	ND(1)	ND(0.07)	[Xylenes]	
o-Xylene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	[Xylenes]	
Styrene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	10	Pass
Isopropylbenzene (Cumene)	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	70	Pass
n-Propylbenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
Bromobenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
2-Chlorotoluene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
4-Chlorotoluene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
1,3,5-Trimethylbenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
tert-Butylbenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
1,2,4-Trimethylbenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
sec-Butylbenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
p-Isopropyltoluene (Cymene)	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
1,2,3-Trimethylbenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
n-Butylbenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)		
1,2,4-Trichlorobenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	7	Pass
Hexachlorobutadiene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.4	Pass
1,2,3-Trichlorobenzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.3	Pass
Naphthalene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	10	Pass
Benzene	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	0.5	Pass
Total Trihalomethanes	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	8	Pass
Total Xylenes	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	9	Pass
1 - If the acceptance criteria is blank and the evaluation status is "Fail", then the criteria used will be noted on the letter accompanying these results.							
[Xylenes] - Acceptance based on Total Xylenes							
[TTHM] - Acceptance based on Total Trihalomethanes							

Sample Id: S-0002203892
Description: KF-70 | solid
Sampled Date: 21-Mar-2025
Received Date: 21-Mar-2025

Tox Normalization Information:		Lab Normalization Information:	
Calculated NF	0.003	Date exposure completed	21-MAR-2025
MUL	3 mg/L		
Compound Reference Key:	SPAC		



Sample Id: S-0002203892

Normalization Calculation:

Normalized Result = Test Result (mg/kg) * NF Where NF = MUL(mg/L) * $\frac{1 \text{ kg}}{10^6 \text{ mg}}$ * $\frac{10^3 \text{ ug}}{1 \text{ mg}}$

- MUL = Maximum Use Level;
- Unit conversion: 1 kg = 10³ mg, 10³ ug = 1 mg;
- An additional factor may be used to adjust the analytical result to field use conditions to account for product carryover, flushing, or other assumptions stipulated with the use of the product. If an additional factor is used, it is included in the information above.

Testing Parameter	Units	Sample	Result	Norm. Units	Norm. Result	Acceptance Criteria(1)	Evaluation Status
NSF Shanghai Chemistry Lab							
* Bromate and Chlorates in solid bleach by LCMS							
Bromate	mg/Kg	91	91	ug/L	0.27	3.3	Pass
Perchlorate	mg/Kg	ND(40)	ND(40)	ug/L	ND(0.12)	5	Pass
Chlorate	mg/Kg	5500	5500	ug/L	16	300	Pass
1 - If the acceptance criteria is blank and the evaluation status is "Fail", then the criteria used will be noted on the letter accompanying these results.							



Common Terms and Acronyms Used:

Sample.....	Test result on the submitted product sample after prepared or exposed in accordance with the standard.
Control.....	Test result on a laboratory blank sample analyzed in parallel with the sample.
Result.....	Sample test result minus the Control test result.
Normalized Result...	Result normalized in accordance with the test standard to reflect potential at-the-tap concentrations
ND().....	Result is below the detection level of the analytical procedure as identified in the parenthesis.
DCC Number.....	NSF document control code of the registered formulation of the product tested
ug/L.....	Microgram per liter = 0.001 milligram per liter (mg/L)
SPAC.....	Acceptance criteria of the standard (Single Product Allowable Concentration)

References to Testing Procedures:

NSF Reference	Parameter / Test Description
SC0162	* Bromate and Chlorates in solid bleach by LCMS
SC1183	Metals II in water by ICPMS (Ref: EPA 200.8)
SC4662	Volatile Organic Compounds (Ref: EPA 524.2)

Test descriptions preceded by an asterisk “*” indicate that testing has been performed per NSF requirements but is not within its scope of accreditation.

Unless otherwise indicated, method uncertainties are not applied in any determinations of conformity. Testing utilizes the requested sections of any referenced standards, which may not be the entire standard.

Dates of Laboratory Activity: 21-MAR-2025 to 15-MAY-2025

Testing Laboratories:

	Id	Address
All work performed at: ➔	NSF_SHANG	NSF (Shanghai) Testing Technology Co., Ltd. Floor 9, Building 1 No. 760 Xin Jun Huan Rd. Pujiang Town, Minhang District Shanghai, China



About the Standard:

NSF/ANSI/CAN Standard 60: Drinking Water Treatment Chemicals - Health Effects

NSF/ANSI/CAN 60 establishes minimum health effects requirements for the chemicals, the chemical contaminants, and the impurities that are directly added to drinking water from drinking water treatment chemicals. It does not establish performance or taste and odor requirements. The standard contains requirements for chemicals that are directly added to water and are intended to be present in the finished water as well as other chemical products that are added to water but are not intended to be present in the finished water. Chemicals covered by this Standard include, but are not limited to, coagulation and flocculation chemicals, softening, precipitation, sequestering, pH adjustment, and corrosion/scale control chemicals, disinfection and oxidation chemicals, miscellaneous treatment chemicals, and miscellaneous water supply chemicals.

The testing performed to this standard is done to estimate the level of contaminants or impurities added to drinking water when the chemical is used at the "Maximum Use Level" under attestation. Prior to testing, information is obtained on the formulation and sources of supply used to manufacture the chemical. This information is then reviewed along with the minimum requirements of the standard to establish the potential contaminants of concern. A representative sample of chemical is obtained for testing. The chemical sample is prepared for analysis through specific methods established in the standard based on the type of chemical and then is analyzed for potential contaminants determined during the formulation review. The laboratory results are normalized to represent potential at-the-tap values and then compared to the "single product allowable concentration" (SPAC) established by the standard. The product is found in compliance with the standard if the normalized value is less than or equal to the allowable concentration.