

Quantum Dots



August 12, 2011

Mr. Jeffrey Wong, Ph.D.
Chief Scientist
Department of Toxic Substances Control
1001 "I" Street P.O. Box 806
Sacramento, CA 95119

SUBJECT: Response to Request for Chemical Information and Analytical Test Methods for Specified Nanomaterials

Dear Mr. Wong:

Stion is submitting these forms in response to the formal request for information on the chemicals and analytical test methods used at Stion Corporation. Stion is neither a manufacturer nor an importer of the six specified nanomaterial chemicals of concern including Nano Silver, Nano Zero Valent Iron, Nano Cerium Oxide, Nano Titanium Dioxide, Nano Zinc Oxide, and Quantum Dots. The enclosed form has been filled out appropriately, indicating that Stion does not manufacture these nanoparticle materials.

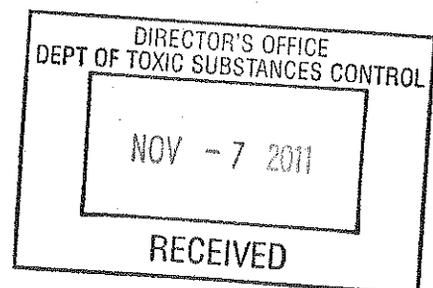
Furthermore, Stion does not plan to acquire or manufacture nanomaterial chemicals in the future. If this status changes, Stion will promptly notify the Department of Toxic Substances Control.

If you have any questions or would like to discuss this matter, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Howard Lee".

Dr. Howard Lee
CTO
Stion Corporation



STATE OF CALIFORNIA
Department of Toxic Substances Control

Health and Safety Code Section 57019 Chemical Information Call-in Information
for Nanometals, Nanometal Oxides, and Quantum Dots
December 2010

This enclosure is provided for your convenience. You may provide the requested information in writing, and attaching any supplementary materials or explanatory information, in letter or report form.

SECTION A: CHEMICAL(S) (check each one which applies for your company)			Stion does not manufacture nanoproducts as products
<input type="checkbox"/> Nano Silver	<input type="checkbox"/> Nano Titanium Dioxide	<input type="checkbox"/> Nano Cerium Oxide	
<input type="checkbox"/> Nano Zero Valent Iron	<input type="checkbox"/> Nano Zinc Oxide	<input type="checkbox"/> Quantum Dot(s)	

SECTION B: BUSINESS IDENTIFICATION INFORMATION (check one and complete items 1 - 10)				
<input type="checkbox"/> Sole Owner	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Limited Liability Company (LLC)	<input type="checkbox"/> Limited Liability Partnership (LLP)	<input type="checkbox"/> Unincorporated Business Trust
<input type="checkbox"/> Spouses' Co-ownership	<input type="checkbox"/> Registered Domestic Partnership	<input type="checkbox"/> General Partnership	<input type="checkbox"/> Limited Partnership	<input type="checkbox"/> Other: (describe)
1. Name of Sole Owner, Corporation, Partnership, Institution, Other. Stion Corporation				
2. Business Trade Name ("Doing Business As," if any) Stion Corporation				
3. Business Address (physical location of your business: street number and name, city, state, country, zip or postal code) 6321 San Ignacio Blvd. San Jose CA 95119				
4. Mailing Address (street name and number, P.O. box, city, state, country, zip or postal code, if different from 3) 6321 San Ignacio Blvd San Jose CA 95119				
5. Business Website Address(es): WWW.Stion.com				
6. Name of Owner, Responsible Corporate Officer, Partner, Other. Howard W. H. Lee, Chief Technology Officer, Stion Corp.				
7. Contact Information for Person in 6 above. Name: Howard W. H. Lee Title: Chief Technology officer Business Telephone: 408-284-7211 Email: hlee@stion.com				
8. Number of Employees (California employees). 105				
9. NAICS Code(s) for this business: Primary: 334413 Other: Other:				
10. Nano Chemical Business Type: (check applicable) <input type="checkbox"/> Manufacturer <input type="checkbox"/> Importer <input type="checkbox"/> Researcher N/A				

SECTION C: CERTIFICATION (FOR THIS COMPLETE SUBMITTAL)		
I am duly authorized to prepare and submit this information, as a formal response to the request pursuant to Health and Safety Code section 57019(d)(1), and certify the information and statements made herein, and in the attachments, are correct to the best of my knowledge and belief.		
Name: (type or print) Howard W.H. Lee	Signature: Howard W. H. Lee	Date: 12 Aug 2011

SECTION D: NANOMATERIAL CHEMICAL AND PHYSICAL PROPERTIES (Attach additional pages as needed)

PRODUCT / PRODUCTION INFORMATION *Stion is not a manufacturer of Nanoparticles*

NANO CHEMICAL NAME: (Use a separate page for each unique chemical.) *At this time, some small particles are unintentionally generated as wastes*

COMMERCIAL NAME(S): *Solar Panel Manufacturing component layer.*

ANNUAL PRODUCTION VOLUME: *Stion does not produce Nanoparticles as products*

PRODUCTION METHOD(S): *Chemical Vapor deposition*

IDENTIFICATION OF THE SUPPLIER(S): *None*

PARAMETER		VALUE / RANGE ^{1/} (include units)	NAME OF ANALYTICAL METHOD(S) ^{2/}
PHYSICAL PROPERTIES		<i>Unknown</i>	<i>N/A</i>
SHAPE (MORPHOLOGY)		<i>unknown</i>	
DENSITY		<i>unknown</i>	
SURFACE AREA		<i>Not measured</i>	
PARTICLE SIZE DISTRIBUTION	Air	<i>N/A</i>	
	Liquid	<i>Not measured</i>	
	Solid / Powder	<i>N/A</i>	
OTHER (Specify)			
CHEMICAL PROPERTIES			
CHEMICAL COMPOSITION			
SURFACE MODIFICATION (COATING, FUNCTIONALIZATION)			
PURITY			
SURFACE CHARGE			
DISPERSION ^{3/}	Air		
	Liquid		
	Solid		
IDENTIFYING AND DETERMINING CONCENTRATION OF NANO CHEMICAL, ITS METABOLITES, AND DEGRADATION PRODUCTS IN SPECIFIED MATRICES ^{4/} Water, Air, Soil, Sediment, Sludge, Chemical Waste, Fish, Blood, Adipose Tissue, Urine, Other (specify)			
SOLUBILITY	Water Solubility		
	Solubility in Organic Solvent		
N-OCTANOL-WATER PARTITION COEFFICIENT			
STABILITY AND REACTIVITY	Flammability		
	Explosiveness		
	Oxidizing Properties		
	Oxidation Reduction Potential		
	Storage Stability and Reactivity (Container Material)		
	Stability to Thermal, Sunlight, and Metal(s)		

Notes for Section D:

Indicate "Unknown" if you do not know one of the requested parameters or information items. Indicate "To Be Developed" if your company has not yet developed the information. Indicate "Not Applicable" only if the specific parameter does not apply for your nano chemical.

1. Specify the *units* (dimensions) for each parameter for which you are reporting values (test results), ranges, and analytical test methods.
2. Specify the *analytical test method(s)* which you currently use for each parameter and report the *value* or *range* for your nano chemical(s). For each method, provide the complete reference (or provide a copy of the complete method). For example, see USEPA 289.2 (1978), ARB Method 310, ASTM E01, OECD 201, as examples of established analytical test methods for chemicals. If you have developed an internal method, or engaged a consultant or external laboratory for a unique or custom test method, provide complete information regarding sample preparation, test protocol(s), limitations, accuracy, precision, bias, required special conditions, resolution limit, applicable matrices, etc. List the consultants, external laboratory personnel, and others with direct knowledge of specialized methods which you have applied for your nano chemical.
3. Describe the extent to which particles agglomerated (i.e., are held together in groups or clusters by attractive inter-particle forces or distribution of particles in the specific system) under "Dispersion."
Specify this parameter for three matrices: air, liquid, and solid.

SECTION E:

Provide a copy of your Globally Harmonized System (GHS) Safety Data Sheet (SDS), if you have prepared one.

None developed

SECTION F:

For each nanomaterial you produce or import, describe the analytical test method(s) that you use, or plan to use, to sample, prepare, and analyze a specific matrix to determine the identify and concentration of each specified nanomaterial. Use a separate page to describe the procedure for each, individual matrix, which must include water, air, soil, sediment, sludge, chemical waste, fish, blood, adipose tissue, and urine. Include the information requested in Section D above.

Not applicable

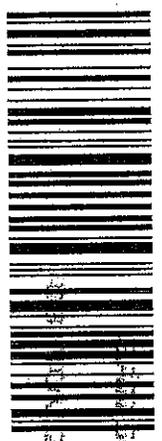
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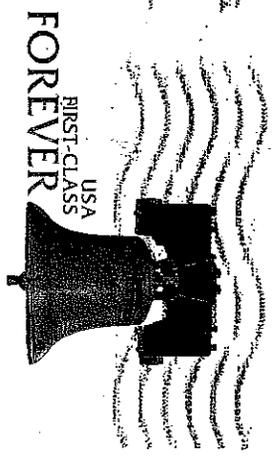
UNITED STATES
POSTAL SERVICE

Mr. Jeffrey Wong Ph.D.
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