

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) <i>(check each one which applies for your company)</i>		
<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 <i>(check one and complete items 1 - 10)</i>
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<input type="checkbox"/> Sole Owner	<input 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: <i>(describe)</i>

1. Name of Sole Owner, Corporation, Partnership, Institution, Other.

2. Business Trade Name ("Doing Business As," if any)

3. Business Address (physical location of your business: street number and name, city, state, country, zip or postal code)

4. Mailing Address (street name and number, P.O. box, city, state, country, zip or postal code, if different from 3)

5. Business Website Address(es):

6. Name of Owner, Responsible Corporate Officer, Partner, Other.

7. Contact Information for Person in 6 above.

Name: _____ Title: _____

Business Telephone: _____ Email: _____

8. Number of Employees (California employees).

9. NAICS Code(s) for this business: Primary: _____ Other: _____ Other: _____

10. Nano Chemical Business Type: (check applicable) Manufacturer Importer Researcher

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: <i>(type or print)</i>	Signature:	Date:

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

PRODUCT / PRODUCTION INFORMATION

NANO CHEMICAL NAME: (Use a separate page for each unique chemical.)

COMMERCIAL NAME(S):

ANNUAL PRODUCTION VOLUME:

PRODUCTION METHOD(S):

IDENTIFICATION OF THE SUPPLIER(S):

PARAMETER	VALUE / RANGE ^{1/} (include units)	NAME OF ANALYTICAL METHOD(S) ^{2/}
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PHYSICAL PROPERTIES

SHAPE (MORPHOLOGY)		
DENSITY		
SURFACE AREA		
PARTICLE SIZE DISTRIBUTION	Air	
	Liquid	
	Solid / Powder	
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.

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.