



# The Consumer's Guide to Nanotechnology

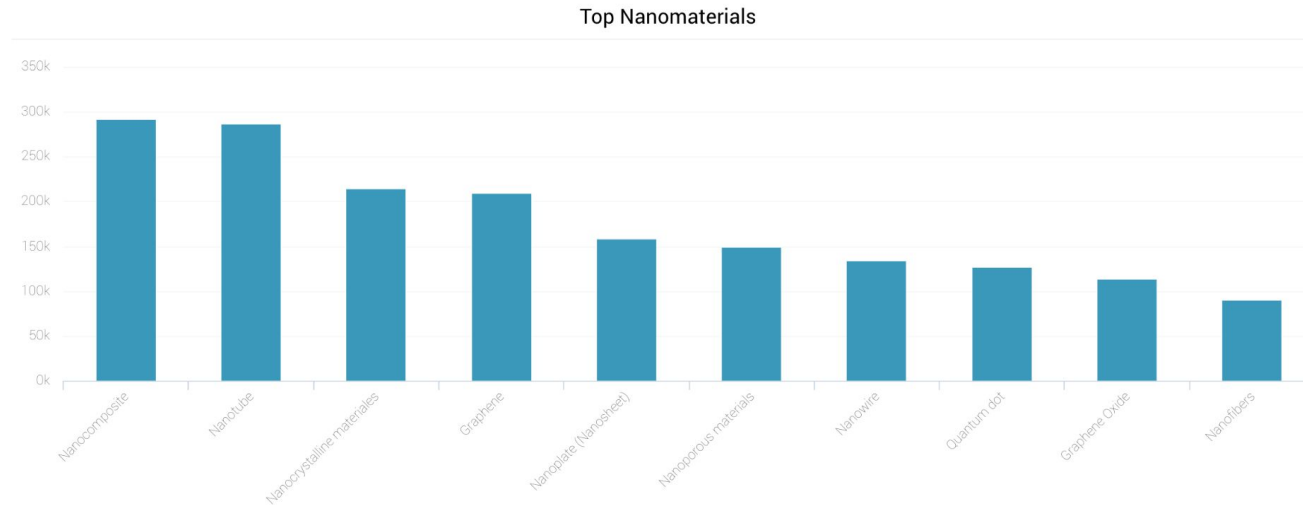
# Nanomaterials and Nanotechnology

Nanomaterials are materials, either naturally occurring or synthetically engineered, that range in size from 1 to 100 nanometers. Nanotechnology refers to the design, creation, and manipulation of those materials.

# The Problem:

Nanomaterials have unique properties that may make some of them a hazard to human health yet they are being used in consumer products without the same monitoring and regulation as other toxics

**54** Nanomaterials in **2,460,289** Articles,  
**275,483** Patents and **4,421** Products



# Municipal Response to Nanomaterials Use

Created by Richard Reibstein

Intended for fire protection officials, health agents, and others who are generally concerned with public health and safety

## HOW YOU CAN RESPOND

- Require data about nanomaterials used and produced on site
- Require facilities tell you how they prevent releases where nanomaterials are used or produced
- Require facilities contain all nano-containing wastes and notify waste handlers that containment must be maintained
- Provide known users and manufacturers with resources for best practices for safe use of nanomaterials – such as *NIOSH Guidance*
- Require facilities provide contingency plans for response to accidents at such facilities
- If an inspector visits the facility, appropriate PPE is provided.

## How Awareness is Protective



Contingency planning will tell us what might explode, who should be evacuated, what systems to maintain or shut off, how to protect responders




Inspectors will know what PPE to use onsite



Authorities will know what to require

Ventilation,  
notifications,  
monitoring,  
treatment,  
waste  
management

# The Nanodatabase



☒ Any words ☐ Exact sentence

**FILTERS**

Year

Categories

Nanomaterials

Nano Element Locations

Wastematerials

Country Of Origin

Country Of Production


Manufacturers


Potential Exposure Pathways

Added On Or After Date

CPDAT

Developed by the DTU Environment, the Danish Ecological Council and Danish Consumer Council


 The Nanodatabase

LOGIN  ENGLISH

SEARCH DATABASE NEWS ANALYSIS NANORISKCAT REPORT PRODUCT ABOUT US **NANO REGULATIONS**

**SEARCH DATABASE**

Home / Search Database



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**FILTERS**

Year

Categories


Nanomaterials

Nano Element Locations

Wastematerials

Country Of Origin

**FOUND 5367 PRODUCTS ON 269 PAGES**



**Vichy Capital Idéal Soleil 3-i-1 tonet solcreme**

Manufacturer

Nanomaterial


Category


Vichy

Titanium dioxide

Health and Fitness, Sunscreen

Nano Risk Category





**Vichy Neovadiol Eyes and Lips Contours**

Manufacturer

Nanomaterial


Category

Vichy

Silicon

Health and Fitness, Cosmetics

Nano Risk Category



# Resources

(posted on the website!)

1 OSHA Fact Sheet: Working Safely with Nanomaterials

2 Continuing to Protect the Nanotechnology Workforce: NIOSH Nanotechnology Research Plan for 2018 - 2025

3 The Nanodatabase

4 Municipal Response to Nanomaterials Use

5 Nanotechnology Products Database