

Nanomaterials ESH Literature Database

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- **National Nanotechnology Initiative
Chemical Industry Consultative Board
(NNI-ChI-CBAN) contacted ORNL to
develop an nanoparticle ESH database**

- **ORNL searched the following information bibliographic databases:**

TOXNET – Toxicology, hazardous chemicals, and environmental health

MEDLINE – Medicine, veterinary medicine, health care, preclinical sciences.

**NTIS – (National Technical Information Service)
Government-funded scientific research projects of DOD, DOE, DOT, NASA, Japan Ministry of International Trade and Industry, German Federal Ministry of Research and Technology, French National Center for Scientific Research**

PRIMARY SEARCH TERMS

Nanotechnology

Nanotube

Nanoscience

Nanomedicine

Nanocapsule

Nanosphere

Nanocrystal

Nanoparticle

Ultrafines

Fullerene

Bucky ball

Quantum Dot

Quantum effect

Quantum

Nanocomposite

SEARCH STRATEGY

SECONDARY SEARCH TERMS

Absorption

Adsorption

Aggregation

Coating

Decomposition

Distribution

Environment

Fate

Health

Particle

Metabolism

Release

Safety

Stability

FINAL SEARCH TERM

NANO

**SEARCHES WERE CONDUCTED FROM
START OF DATABASE (~1970) UNTIL
PRESENT (JANUARY 2005)**

**SEARCH FILES WERE DOWNLOADED INTO
ASCII FILES**

**ALL SEARCH FILES (CONTAINING 22,256
RECORDS) WERE REVIEWED FOR
RELEVANCE BASED BROAD AREAS OF:**

HUMAN HEALTH

ANIMAL HEALTH

ENVIRONMENTAL HEALTH AND SAFETY

2518 RECORDS SELECTED FOR INCLUSION

**RECORDS WERE LOADED IN
MICROSOFT ACCESS**

TITLE

ABSTRACT

AUTHORS

IDENT. NUMBER

JOURNAL

**ALL RECORDS SCREENED AND
DUPLICATES DELETED**

**ASSEMBELED DATABASE (1347 RECORDS)
PROVIDED TO
ICON AND CBEN**

**ICON, ADMINISTERED BY CBEN,
MAINTAINS THE ESH
NANOTECHNOLOGY DATABASE AS A
PUBLIC SERVICE**

DATABASE IS WEB-BASED

**CURRENTLY SEARCHABLE BY
AUTHOR, YEAR, and KEYWORD(S)
IN ABSTRACT OR TITLE**