The European Union Observatory for Nanomaterials Increasing Transparency on Nanomaterials

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Abdelqader Sumrein European Chemicals Agency









EU Initiatives for nanomaterials safety and transparency

- Three key developments aimed at addressing information on nanomaterials:
 - EU recommendation for definition of a nanomaterial
 - New information requirements to be submitted under the REACH Regulation
 - European Union Observatory for Nanomaterials (EUON)-launched 2017





EUON aims

- Provide objective and reliable information on the innovation and safety aspects of nanomaterials on the EU market
 - Collect and analyse information from a wide variety of publically available sources
 - Complement existing information with external studies
 - Present information on uses and safety of nanomaterials to laypersons



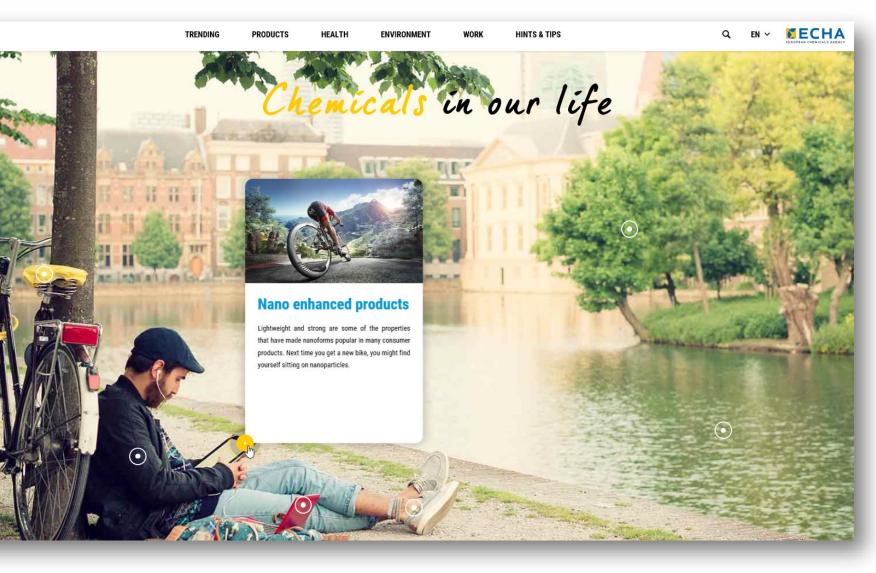




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NanoData

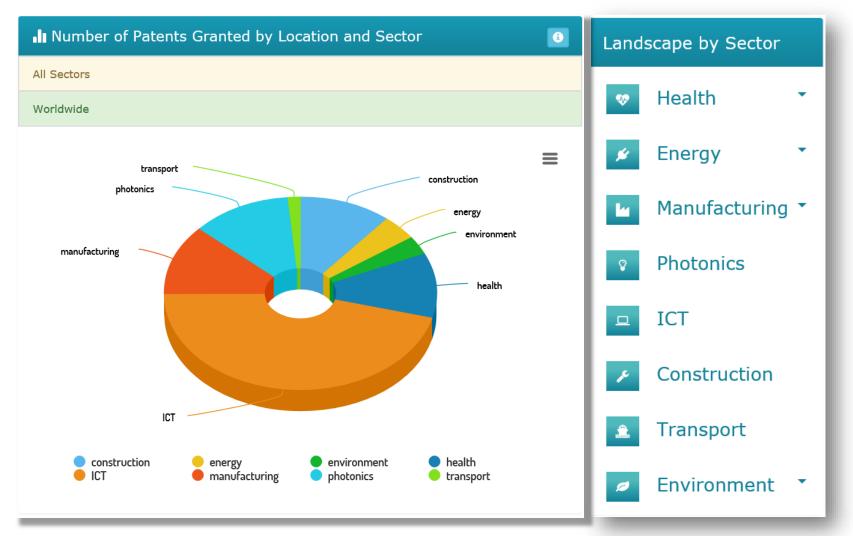


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NanoData



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eNanoMapper



- eNanoMapper provides ontology and databases for managing data from EU funded research projects on health and safety of nanomaterials
- User can search, display, and filter data from different research projects

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| Filtering | Search | ٩ |
| * Projects (45319) | | |
| Study providers (41991) | Hits list Selection | Export |
| Nanomaterial type (45259) | < 1 2 3 78 79 > displaying 1 to 10 of 789 | |
| * Nanomaterial (34076) | JRCNM04001a (NM-401 (MWCNT 64.2 nm)) multi-wall CORE (1): Read more | ed carbon nanotube |
| + Protocols (129027) | Results: P-CHEM.Crystalline phase, P-CHEM.Surface chemistry, P-C | |
| * Method (81138) | Granulometry), P-CHEM.Batch Dispersion quality, P-CHEM.Dustines a, TOX.Immunotoxicity, TOX.Cell Viability, TOX.Genetic toxicity in city to aquatic inverterbrates, TOX.Repeated dose toxicity - oral, P | vitro, ECOTOX.Short-term toxi |
| + TOX (84349) | Aerosol characterisation | critical potential, r critica. |
| | Substance Composition Study | Add to Selection |
| + P-CHEM (45132) | JRCNM04002a (NM-402 (MWCNT 12.7 nm)) multi-wall | ed |
| | | |
| * ECOTOX (984) | carbon nanotube CORE (1): Read more | |
| ECOTOX (984) Cell (71527) | CORE (1): Read more Results: P-CHEM.Crystalline phase, P-CHEM.Surface chemistry, P-C Granulometry), P-CHEM.Batch Dispersion quality, P-CHEM.Specific | |
| ECOTOX (984) Cell (71527) Species (6396) | CORE (1): Read more Results: P-CHEM.Crystalline phase, P-CHEM.Surface chemistry, P-C | |
| * Species (6396) | CORE (1): Read more Results: P-CHEM.Crystalline phase, P-CHEM.Surface chemistry, P-C Granulometry), P-CHEM.Batch Dispersion quality, P-CHEM.Specific ress, TOX.Cell Viability, TOX.Repeated dose toxicity - oral | |





Integration of national inventories

- By July 2019, EUON users will be able to search for nanomaterials in the EU market based on:
 - REACH registrations
 - Cosmetics notifications
 - National inventories: France and Belgium
- Search results to be integrated with ECHA's disseminated data on chemicals





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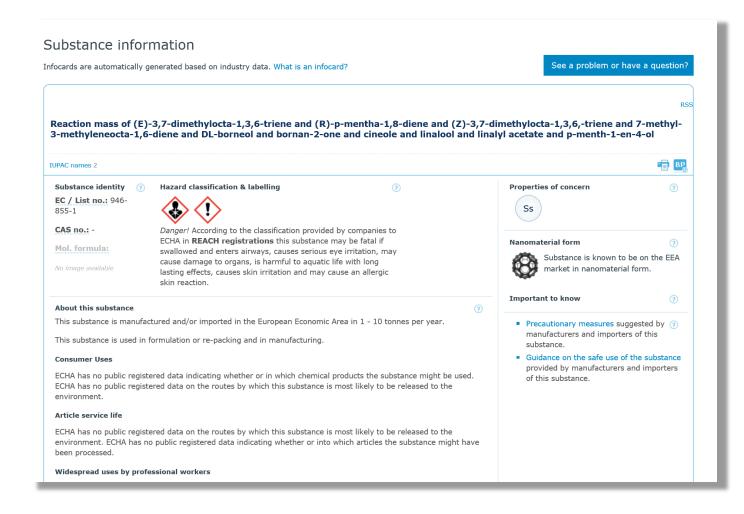
Integration of national inventories

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| Search for nanomaterials | | | | | | | | | |
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| Page 1 of 7 ▼ 50 Items per Page ▼ Showing 1 - 50 of 335 results. ← First Previous Next Last → | | | | | | | | | |
| Substance name 🌣 | EC/List O | CAS no | REACH Registration | EU cosmetics O inventory | Belgian nano O inventory | French nano O inventory | | | |
| (2E)-10,12-dioxa-2,3,6,8,14,16-hexaaza-11- nickelatricyclo[11.4.0.04,9]heptadeca-1(13),2,4(9) -triene-5,7,15,17-tetrone; 1,3,5-triazine-2,4,6-triamine | 939-379-0 | - | Yes | | | Yes | | | |
| (3-carboxy-1,1'-(1,2-dicyanovinylenebis (nitrilomethylidyne)-2,2'-dinaphtholato)nickel(II) | 403-550-3 | 205057- 15-4 | | | Yes | | | | |
| (C60-Ih)[5,6]fullerene | 628-630-7 | 99685- 96-8 | | Yes | Yes | | | | |
| 1,1'-[(6-phenyl-1,3,5-triazine-2,4-diyl)diimino] bisanthraquinone | 223-912-2 | 4118-16-5 | | | | Yes | | | |
| 1,4-bis(butylamino)anthraquinone | 241-379-4 | 17354- 14-2 | | | Yes | Yes | | | |
| 1,4-bis(mesitylamino)anthraquinone | 204-155-7 | 116-75-6 | | | Yes | Yes | | | |
| 1,4-bis(p-tolylamino)anthraquinone | 204-909-5 | 128-80-3 | | | Yes | Yes | | | |





Integration of national inventories







Food for thought

- Transparency is a core value for us and the EUON is a tool to achieve this strategic objective
- Our aspiration: EUON will be a trustworthy source of information contributing to public debate by raising awareness
- Recent mid-term evaluation concludes the EUON is delivering on its aims, but further improvement needed
- Three EU initiatives are linked and complement each other: REACH annexes, review of the definition and EUON

Thank you!

Abdelqader.sumrein@echa.europa.eu

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