

INDTECH2018

Innovative industries for smart growth

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Vienna, Austria

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PILLAR 2

Session 2.1

**Regulatory Challenges in Risk
Assessment of Nanomaterials**

Abdelqader Sumrein

European Chemicals Agency (ECHA)

30 October 2018

The European Union Observatory for Nanomaterials (EUON)



- A perception of lack of information sparked the Commission to look into various to increase transparency of information on nanomaterials
- Based on an impact assessment, Commission opted for establishment of the European Union Observatory for Nanomaterials (EUON) with the overall aim to:

Provide objective and reliable information on the market and safety of nanomaterials in the EU

- Collect and analyse information from a wide variety of existing sources
- Supplement existing information with external studies
- Present information on uses and safety of nanomaterials in a friendly way



[General information](#)[Uses](#)[Safety](#)[Regulation](#)[International activities](#)[Research & Innovation](#)[EUON](#) > [Home](#)

Case study successfully applies grouping and read-across for nano titanium dioxide

28 September 2018

The Organisation for Economic Co-operation and Development (OECD) has published a case study by the European Union Joint Research Centre (JRC) on grouping and read-across for the genotoxicity of nano titanium dioxide. Although the case study successfully evaluated the confidence in read-across argumentation for nanomaterials, some nanospecific issues were identified for further clarification.

[More news](#)  [RSS](#)

News

21 August 2018

EU report maps nanomedicine terminology in the regulatory landscape

The European Commission's Joint Research Centre (JRC) has mapped currently used terminology in the field of nanomedicines. The outcome of their analysis supports the development of harmonised use of terminology in the future.

3 July 2018

Smart food packaging: tackling food waste and safety

EU researchers are testing a nano-based packaging material that releases antimicrobial oils to slow food spoilage and prevent foodborne illnesses.



More on the web

[Nanotechnology experts from across the globe join forces to advance nanomaterials safety assessment](#)

Source: Nanotechia.org

[Nanomaterial Stimulates Bone Regeneration](#)

Source: Dentistrytoday.com

[NIOSH Current Intelligence Bulletin: Health Effects of Occupational Exposure to Silver Nanomaterials](#)

Source: Federalregister.gov

[Polymer-Based Nanomaterials for Photothermal Therapy: From Light-Responsive to Multifunctional Nanoplatfoms for Synergistically Combined Technologies](#)



EUON: Integration of Information from different sources

Currently, EUON allows the user to search for nanomaterials on the EU market:

- REACH registrations
- Cosmetics notifications
- EU funded research projects (eNanoMapper)
- NanoData knowledge base
- Consumer microsite: chemicals in our life
- Results of EUON studies on:
 - Risks of nanomaterials as pigments in the European Union
 - Relevance and reliability of parameters required to produce market studies on nanomaterials

Further integration of data from national inventories planned



INDustrial TECHNOLOGIES 2018

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EC/List name	EC	CAS	Type	Name
Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate	217-699-5	1934-21-0	Colourant	ACID YELLOW 23 / CI 19140

Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate

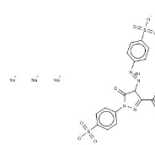
Other names: [Regulatory process names](#) [2] [IUPAC names](#) [9]

Substance identity ?

EC / List no.: 217-699-5

CAS no.: 1934-21-0

Mol. formula:
C16H9N4Na3O9S2



Hazard classification & labelling ?

According to the notifications provided by companies to ECHA in REACH registrations no hazards have been classified.

How to use it safely ?

- ECHA has no data from registration dossiers on the precautionary measures for using this substance.
- [Guidance on the safe use of the substance](#) provided by manufacturers and importers of this substance.

About this substance ?

This substance is manufactured and/or imported in the European Economic Area in 10 - 100 tonnes per year.

This substance is used by consumers, in articles, by professional workers (widespread uses), in formulation or re-packing, at industrial sites and in manufacturing.

Consumer Uses

This substance is used in the following products: cosmetics and personal care products, inks and toners, bleaches (e.g. disinfectants, pest control products), machine & cleaning products.

Other names:

BARIUM SULFATE / CI 77120

CARBON BLACK / CI 77266

CI 77288

CI 77491

CI 77499

CI 77510

CI 77891

COPPER / CI 77400

GOLD / CI 77480

PIGMENT RED 57 / CI 15850

PIGMENT RED 57:1 / CI 15850

SILVER / CI 77820

BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE

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

Success of the observatory dependent on the buy in from our stakeholders

Three ongoing policy discussions are linked: REACH annexes, review of the definition and EUON