MATERIALS

Ansys Granta MI™ for Restricted Substances

From executives concerned with corporate liability to engineers making practical materials choices, manufacturing enterprises face restricted substance challenges at every level.

The Restricted Substances Challenge

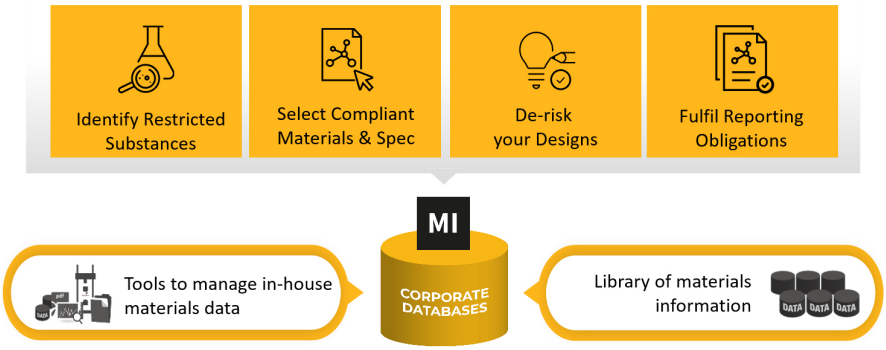
Many manufacturing organizations are aware of the risks associated with using a restricted substance — legal liability, non-compliance costs, product delays and redesign, potential product recalls and the impact of a material's obsolescence.

Minimizing these risks is difficult because:

1. Regulations are regularly updated – and can vary by geographic region.
2. Suppliers might not provide necessary information on substances.
3. Materials, processes and specifications information at enterprise-level is hard to find and manage.

What is Granta MI™ for Restricted Substances?

An optional module for our core Granta MI™ software to enable best practices for managing critical chemicals and substances risk and providing practical analytics, reporting and decision-making tools.



Features:

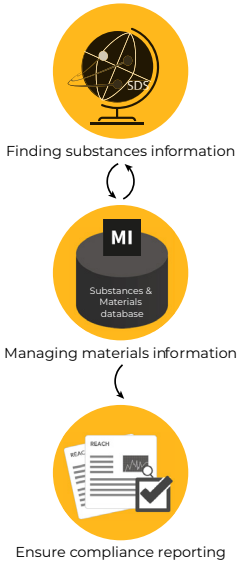
- Link materials, specifications, coatings and components to the substances they contain - including PFAS.
- Connect to the latest legislation to understand regulatory impact.
- Tools to manage complex information, for example, which specifications contain substances in the latest REACH candidate list.
- Find new material options to mitigate risks.
- Build lists of preferred materials to guide decision making.
- See risk factors at a glance and understand the impact of modifying a design.
- Quickly generate compliance reports.
- Queries and reports are run on a single component or across multiple components to find where a particular substance is used within a company's product portfolio.

Key Benefits

- Avoid business risk due to restricted substance regulations such as REACH.
- Prevent multi-million-dollar expenses, delays and reputational damage.
- Base decisions on robust data about the materials and specifications that drive use of restricted substances.
- Consider compliance during design, where change costs least and delivers the biggest impact.
- Understand and assess the presence of restricted substances (including PFAS) in your bills of materials.

Easy access to difficult to find substances data

When partnered with Chemwatch, users of Ansys Granta MI™ Restricted Substances can access 70+ million Safety Data Sheets (SDS). This ensures greater insight into product composition, facilitating compliance with global regulations.



/ Rapidly fill knowledge gaps with unique reference data

Granta MI's unrivaled, regularly updated library of reference data enables teams to keep up to date with evolving regulations:

Library of Reference Data

125+ Legislations covering over 60 countries

23,000+ Restricted Substances

4,200+ Engineering Materials

165 Coatings

450+ MIL and SAE Specifications

The reference data provided can also help engineers fill knowledge gaps to assess risk and determine where supplier data is missing or assess risks for new innovative designs.

/ Identify Restricted Substances and de-risk your design at every step of the product development process

Combining reference data with in-house data on materials, specification, and internal substances list of interest, will enable engineers to easily identify restricted substances in all materials and processes used in product design and manufacturing.

/ EMIT Consortium

The Ansys Materials team work in collaboration with members of EMIT (large manufacturers and related agencies) to continually develop our solution – centered on information and decisions relating to materials and processes.

EMIT CONSORTIUM

For more information about EMIT see:
Granta Collaborations | Ansys

/ What do you buy?

- Large dataset covering information on substances, legislation, materials, and specifications.
- User-friendly web apps to enable data management, analytics and reporting.
- Direct integration with leading CAD, CAE & PLM systems.
- Easy-to-use APIs to enable integration with required systems.
- PyGranta BoM Analytics - making custom Python integrations easier to write.

BEST PRACTISES FOR MANAGING RESTRICTED SUBSTANCES

I. MATERIALS MANAGEMENT

Combine materials and legislation information in a centralized system

Risk assess your in-house materials and specifications

Define and manage lists of compliant materials

II. CONCEPTUAL DESIGN

Assess compliance risks from an early stage in design

Use reliable generic materials data to explore design options

III. DETAILED DESIGN

Use in-house materials data

Use pre-defined approved materials lists

Assess compliance of the final design before manufacturing

IV. SUPPLY CHAIN

Risk assess your suppliers based on local legislation

Fill missing information gaps to access risks

Give preference to full disclosure materials declarations

V. PRODUCT STEWARDSHIP

Ensure all information is linked and necessary systems are integrated

Keep up-to-date with change

Understand the future implications of legislation

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