AUTOMOTIVE CHEMICAL MANAGEMENT

IC2 Meeting, September 19
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PERCEPTION OF CHEMICALS
AGENDA

- History of chemical management in Automotive products
- IMDS
- GADSL
- Challenges and OEM perspective
OEM PERSPECTIVE ON DATA COLLECTION

Internal Requirements

Customer Concerns

Internal efficiency

End of Life Vehicle Directive
RRR Type Approval
REACH
CEPA Challenge
Conflict Minerals
Safer Consumer Products

Eco Design

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
THE STARTING POINT

- Restricted Substance Lists
- Spot checks
- Queries
- Internal Development
- Change driven by regulation
LEGAL PREREQUISITES

- Regulation requires detailed data on every component
  - Material & substances
  - Substance applications
  - Recycled content
  - Recyclability

- OEMs face the requirements but our suppliers have the knowledge

- Individual OEM efforts had been tested – and failed

- Joint industry effort with supplier involvement the only way forward

Tools and process for data collection
COMMUNICATION...
COMMUNICATION...

- Centralized approach
- Used by all suppliers on all levels
- Common "language"
- Common Requirements
WHAT IS IMDS

- Web based tool to create and send “Material Datasheets”
- Used to transfer information about material, substances and weight per components
- Launched in 2001…
- Funded by the OEMs
- Used throughout the whole supply chain
- Data security and confidentiality strictly controlled

http://www.mdsystem.com
IMDS IN NUMBERS

• 120’ Active Companies

• ~60M Material Datasheets

• ~400K new datasheets every month

• Available in 9 languages

• Used on every continent of the world
WHAT IS IMDS USED FOR?

- Substance restrictions of known regulations
- Recyclability calculations
- Recycled content
- Supplier guidance
  - Global Automotive Declarable Substance List (GADSL)
  - ELV application codes
  - Community
- Out of scope
  - Conflict Minerals
  - REACH Authorization
  - Process chemicals
  - Data management ("BOM")
  - Substitution
DATA MANAGEMENT & ANALYSIS

Food for thought – What is a car in 10 years?

Data management & analysis
WHERE HAS IMDS TAKEN US?

• Improved Environmental Performance

• Certification Tool

• Changed environmental improvements from generic to specific

• Global harmonization of ”Restricted Substances” within the Automotive Industry
GLOBAL AUTOMOTIVE DECLARABLE SUBSTANCE LIST

• What:
  • Joint list of prohibited and reportable substances
  • Developed by OEMs, Suppliers and Chemical industry
  • Launched in 2004, driven by IMDS and reporting requirements
  • Specifies substances of "interest" to the Automotive industry
    • Regulated or projected to be regulated
    • Of significant interest to our industry

• Can be found at http://www.gadsl.org
GLOBAL AUTOMOTIVE DECLARABLE SUBSTANCE LIST

• How:

Global Board

Regional Board

Working groups

GASG

Coord. team

USA

EU

Japan

Tech. team

Tech team

Tech team
GLOBAL AUTOMOTIVE DECLARABLE SUBSTANCE LIST

• How:
  • Updated annually
  • Each region makes proposals through Dossiers
  • Decision at annual meeting by global board, votes based on industry and region
  • Tech teams prepares the dossiers
  • Coordination team plans meetings, edits the documents etc.
  • GADSI is *not* a standard, management up to each company to decide
OEM VS AUTHORITY APPROACH

- Basic substance List
- GADSL
- Driven by avoiding issues
- Developed into risk management
- Knowledge base for known issues

- Federal and state regulation & efforts
- Mix between product and process
- Main focus on hazard properties
No one "wants" hazardous chemicals in our products, they are there for a reason

- Critical functions (BNST, Cr$^{6+}$, TBBPA, DEHP)
- Small volumes
- Heavily regulated product sold worldwide
- Spare parts and the right to change design on safety components
- Substitution and knowledge (famous – infamous – unknown)
- Complex supply chain (5-7 levels)
CHEMICAL MANAGEMENT FROM OUR PERSPECTIVE

• A qualified dialogue will require a long leadtime
• Differentiate between Hazard and Risk
• Automotive products are very complex, yet similar. Joint dialogue, filings and applications is a win-win for industry and authorities
• Harmonization is appreciated
• Understand that IMDS is not a "know it all" solution – knowledge will take time
  • GADSL can offset the timing issue

• Cooperation between industry, suppliers and authorities is the key to efficient chemical management
THANK YOU FOR YOUR TIME!

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