





Material Declaration: EIA, EICTA, JGPSSI Update



Todd Brady, Intel
NEMI RoHS/Lead-Free Summit
October 19, 2004



Presentation Overview

- Current Environment
 - Material Content Declarations
- EIA, EICTA, JGPSSI Joint Industry Guide
- Other Industry Activities
- Recommendations for NEMI

Material Content Declarations

- Supply chain tool to obtain material composition data from suppliers.
- Why is this data important?
 - Ensure products do not contain banned/restricted materials.
 - Purchasers want to know about the presence of other materials for:
 - Recyclability
 - Sustainability targets/goals
 - Green marketing

What's the Problem?

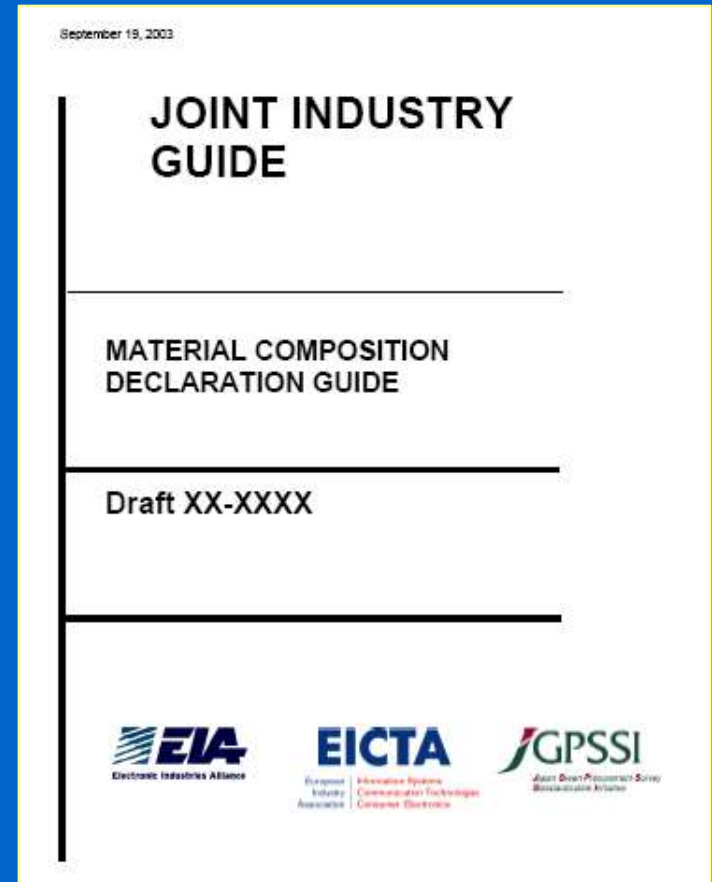
- Request for material content information has exploded – has doubled Y/Y since 1999.
- Intel received over 1200 requests for material content data in the first half of 2004.
- To complicate matters, there is little standardization
 - Many unique reporting lists
 - Many unique reporting formats

Background: Joint Industry Guide

- Companies realized need to harmonize material declaration requirements.
 - 2001: EIA Material Declaration Guide published
 - 2001-present: EIA, EICTA, JGPSSI working together to develop a joint-industry, international Material Declaration Guide

Background: Joint Industry Guide

- Dec 2003:
Draft Joint Industry Guide (JIG) finalized and approved by EIA, EICTA, JGPSSI membership
 - Voting not unanimous (>80% approval); disagreements to be worked in standards process



<http://www.eia.org/resources/2003-09-19.10.pdf>

JIG Content

- Material Lists
 - Level A (banned or restricted)
 - Level B (“sustainability”)
- Reporting Thresholds for Material Lists
- Data Format
 - Set of Data Fields
 - Examples of Material Declaration Forms

Standardization Efforts

- EIA/JEDEC chosen as the standards bodies to convert JIG to industry standard.
- Drafting Committee formed with 4 company representatives from all 3 geographies (EU, Japan, US).
- All EIA, EICTA and JGPSSI members eligible to vote on standard.
- JEDEC electronic balloting serves as the voting mechanism

Drafting Committee Outcome

- Guide reviewed based on inputs from EIA, EICTA, JGPSSI members from Dec vote.
- All negative votes considered and attempts made to find compromise solutions.
- Drafting Committee consensus (2/3) was required for all changes made to the Guide.
- Drafting Committee completed the guide – prepared as draft standard for vote.

Voting Outcome

- Sept 3 – Draft standard sent to EIA, EICTA, JGPSSI Voting Group for formal vote (200+ companies)
- Voting Outcome:
 - 121 votes cast; 106 “Yes”, 12 “No”, 3 “Abstain”
 - ~90% approval
- Most “No” votes fell into the following categories:
 - Disagreement on List B
 - Criteria; Substances on list – too many, not enough
 - Not aligned with EU RoHS requirements

Next Steps

- 2/3 majority needed to publish as standard
- Drafting committee to review and respond to “no” votes and comments.
- Goal is to have standard published by end of year.
- Drafting committee to schedule meetings for ongoing review and revisions to standard (e.g. align with RoHS).

Other Industry Activities

- Attempts to develop solutions to the material declaration issue are not unique to EIA, EICTA, and JGPSSI.
- Many efforts to address are within national or regional trade associations.
- Close evaluation of the industry efforts indicates some overlap, but opportunity for synergistic approaches.

A Sample of Industry Efforts

- IEC 61906/DIN 19220
 - Draft standard that defines good declaration practice
- EIA, EICTA, JGPSSI Joint Industry Guide
 - Defines lists of materials and basic set of data fields for reporting.
- IPC, ZVEI and other trade associations
 - Guidance to members on how to report material content
- NEMI Materials Declaration
 - Defining criteria and methodologies for exchange of material content data.
- Rosetta Net, Other Software Tools
 - Tools for electronic exchange of material content data

A Proposal for Working Together

IEC 61906

Addresses “Why?”
Sets high-level requirements

EIA, EICTA, JGPSSI
Joint Industry Guide

Addresses “What?”
List of what needs to be reported

IPC

NEMI

ZVEI

Addresses “How?”
Defines most effective ways to
collect and communicate data
throughout the supply chain.

Rosetta
Net

Other
Software

Tools for implementation

Recommendations for NEMI

- Use EIA, EICTA, JGPSSI standard as basis for data exchange project.
- Keep it simple – resist the urge to expand.
- Continue to host forums which bring together groups addressing material declaration.



Questions?





Back Up



•
•
•

Drafting Committee

Europe:

-Apple

-HP

-Lucent

-Siemens

Japan:

-Canon

-IBM

-NEC

-Sony

US:

-Agere

-Dell

-Intel

-Teradyne

Level A Materials

- Asbestos
- Certain Azo Colorants
- Cadmium
- Hexavalent Chromium
- Lead
- Mercury
- ODS
- PBB
- PBDE
- PCB
- PCN
- Radioactive Substances
- Certain SCCP
- TBT/TPT
- TBTO

Level B Materials

- Antimony
- Arsenic
- Beryllium
- Bismuth
- Other Brominated Flame Retardants
- Nickel
- Certain Phthalates
- PVC
- Selenium

Level A Materials

Materials and substances when used in products and subparts that are subject to currently enacted legislation that:

- a) Prohibits their use
- b) Restricts their use; or
- c) Requires reporting or results in other regulatory effects

*reporting threshold as defined by law

Level B Materials

Criteria:

- a) Materials and/or substances that are of significant environmental or health and safety interest.
- b) Materials and/or substances that would trigger hazardous waste regulatory requirements.
- c) Materials and/or substances that could have a negative impact on end-of-life management

*reporting threshold is 1000 ppm

Data Format

- Required & optional data fields defined for materials reporting
- Required fields represent minimum reporting requirements
- Guideline allows flexibility
 - Software solutions
 - “Paper” systems



Required Fields

- Date
- Company Name
- Product/Subpart Name
- Product/Subpart Number
- Product/Subpart Mass (g)
- Material/Substance Name
- Material/Substance Mass (g)
- Detailed Material/Substance Information
(Use/Location)

