

History of the JIG

- January 2003 International working group formed to develop material declaration standard
- April 2005 JIG 101 published
 - Established list of reportable substances
- Sept 2007 JIG 101A published
 - Addressed new regulatory and market requirements
- April 2009 JIG 101 Ed 2.0 published
 - Addressed REACH issues and established annual update cycle
- April 2010 JIG 101 Ed. 3.0 to be published
- April 2010 New Draft JIG 201
 - Will include materials used in packaging and shipping of electronics





Overview of the JIG

- Represents industry-wide and global (EU, Japan, US) consensus on materials/substances that are relevant for disclosure when present in electronics products
- Relevant substances are those that are subject to regulatory or market requirements
- Covers materials and substances that may be present in parts and components, including batteries
- Does not apply to:
 - Process chemicals (i.e., chemicals used and consumed during manufacture process) unless those chemicals constitute part of the finished product
 - Packaging/shipping materials (JIG 201 to cover this scope)



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Summary of Key Elements of JIG

- Changed from 2-criteria to 3-criteria rating system to better align with new draft IEC 62474 material declaration standard
 - Level A/Level B replaced by
 - Criteria 1 (regulated); Criteria 2 (for assessment); Criteria 3 (for information)
- Includes new REACH SVHC screening methodology to determine substances applicable to electronics products
 - supports REACH Article 33 communication and Art. 7.2 notification requirement
- Updated to include substances covered by global material content legislation
 - Global "RoHS" regulations (EU, China, Korea, etc); US CPSIA; US TSCA; Japan Law evaluating chemical substances; National Laws implementing Montreal Protocol
 - Global battery substance content declaration requirements
- Includes substances covered by internationally recognized industry standards or agreements
 - GS Mark, EPEAT, DIGITALEUROPE-EERA, Joint Position on WEEE
- Provides an annual JIG review/update process to ensure JIG continues to capture most up-to-date regulatory and industry reporting requirements









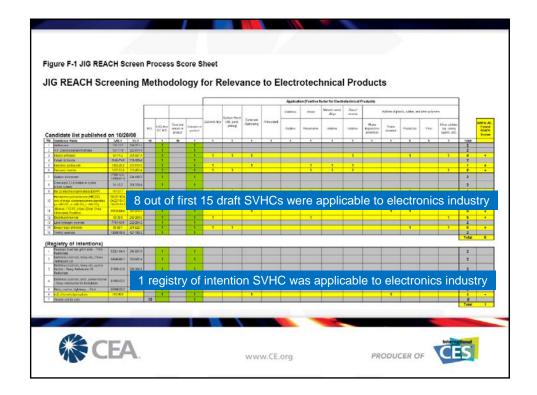
JIG REACH Screening Process (Cont)

- Uses publicly available database to conduct initial research on chemicals
 - ECHA, Kemi, INCHEM:PIM, Spin, JISHA, CERI, Kis-net, OSHA, EPA, NIST, CRC Handbook of Chemistry and Physics, etc
- Technical review by chemical experts in regional JIG **Working Groups**
- Final review by JIG Steering Committee









Summary of the JIG

- Industry-specific standard that balances supply chain need versus burdens of broader material declaration
- Facilitates reporting of material content information across the global electronics supply chain
- Incorporates the most updated regulatory requirements, including REACH SVHCs that are likely to be contained in electronics products
- Provides a regular review and revision cycle to update the JIG declarable substance list on an annual basis











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