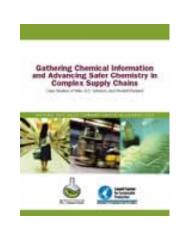
# GC3 Workgroup Update: Tools for Chemical Assessment and Safer Design

Monica Becker
Monica Becker & Associates Sustainability Consultants
Lowell Center for Sustainable Production (Fellow)

Mary Ellen Mika Steelcase





# Workgroup Update: Tools for Chemical Assessment and Safer Design

2007 Database of available tools and resources for chemical assessment& chemical assessment decision tree

http://www.greenchemistryandcommerce.org/participants.documents.php

2008 Restricted Substances List (RSL) Report http://www.greenchemistryandcommerce.org/publications.php

In-depth case studies of examining how leading companies with complex supply chains:

- Gather chemical data from their suppliers
- Use the data to develop safer products

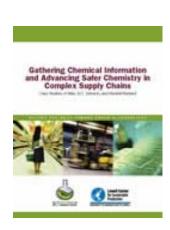
#### **Case Studies:**

- Nike
- SC Johnson
- Hewlett Packard

Summary report synthesizing the findings from the 3 cases

- Type of chemical information collected
- Drivers for information collection
- Best practices
- Challenges

http://www.greenchemistryandcommerce.org/projects.php





# **GC3 Tools Workgroup Update**

2010 Minimum Chemical Data Set (MCDS) Project

## **Motivation**

- Many product formulators and fabricators spending significant resources chasing after <u>chemical data</u> from their supply chains for:
  - Regulatory compliance
  - DfE programs
  - Green certification , etc.

and some are unable to get the information that they need

## Minimum Chemical Data Set (MCDS) Project

#### "Chemical Data" includes:

- Chemical ingredient information
- Chemical hazard traits and toxicity endpoints
- Hazard management information
- Chemical use information (i.e., how chemicals are used)
- Chemical exposure information

Minimum Chemical Data Set (MCDS) Project: Background

The GC3 Tools Group has been exploring whether it would be beneficial and feasible to outline a chemical data set that the GC3 can put forward as the *minimum set of chemical data* that suppliers *should* be expected to provide to their customers to support green chemistry efforts

- Could serve as a basis for dialogue between GC3 formulators/fabricators and their suppliers
- Could send a signal to suppliers that there is a critical mass of formulators/fabricators seeking this information, therefore:
  - Worthwhile to invest in infrastructure to gather info.
  - Ability to provide info. can create competitive advantage

#### Minimum Chemical Data Set (MCDS) Project

#### **Progress to date**

- E-mail survey of GC3 members inquiring about current chemical data collection efforts and additional chemical information desired
- Received 12 responses from formulators, fabricators and others; interviewed several suppliers
- Compiled key survey findings, including challenges and best practices and descriptions of related/synergistic initiatives
- Will be discussing how to go forward in the Tools Group breakout session

B. Fabricators of Articles		
	Reason information is	Best Practices &
Information requesting from suppliers	collected, <u>includes:</u>	Challenges
A. Steelcase		
Information collected from suppliers on chemical identity	EU RoHS compliance (and WEEE), EU REACh compliance, CA and China	Best Practices: Steelcase drives hazard evaluation off of list of chemical
<ul> <li>General products: MSDSs only or other similar (typically incomplete) product chemical information</li> <li>EU REACH SVHC: presence and then concentrations of any listed SVHCs</li> </ul>	RoHS compliance  Cradle-to-Cradle certification  BIFMA e3 / level product	constituents. For some product certifications, the company obtains full formulation of raw



#### Minimum Chemical Data Set (MCDS) Project

#### **Food for Thought for Workgroup Discussion**

<u>Currently</u>, chemical data sought by a company from its supply chain differs depending on industry sector, product mix, goals and participation in voluntary programs

**The Basic Dataset:** Data needed to comply with current regulations,

e.g., RoHS, REACH SVHC, EU Cosmetics Directive,

EU End of Life Vehicles Directive

Additional Data needed to anticipate future regulations

Datasets: Data needed to proactively ID and/or evaluate additional chemicals of concern

Data needed for green certification programs, e.g,

Cradle-to-Cradle, BIFMA, EPA DfE

Full material disclosure (FMD) for internal decisionmaking and/or chemical transparency

initiatives



# GC3 Tools Workgroup Update

# Minimum Chemical Data Set (MCDS) Project

# **Food for Thought for Workgroup Discussion**

# Some sectors have already defined their own MCDS, for example:

Sector	Program	Reportable information included
Electronics	Joint Industry Guide (JIG) & IPC-1752	Banned/restricted substances and specific non- regulated substances, with reporting thresholds
Automotive	Global Automotive Declarable Substances List (GADSL) & International Material Data System (IMDS)	Banned/restricted substances and specific non-regulated substances, with reporting thresholds
Personal Care Products	Personal Care Industry Council Supplier	All intentionally added ingredients & impurities present (FDA required), safety data, other chemical properties
Textiles	American Textile Mf'ers Institute (ATMI) Voluntary Product Environmental Profile <a href="http://reference.milliken.com/supplier/documents/atmi-vpep.pdf">http://reference.milliken.com/supplier/documents/atmi-vpep.pdf</a>	Product analysis data (algicides, biocides, formaldehyde, surfactants); physical properties, human tox; eco tox; regulatory info. and metals content



#### Minimum Chemical Data Set (MCDS) Project: Food for Thought

# Related Initiatives, include:

#### **NSF/GCI 355 Greener Chemical Products and Processes**

(Draft standard undergoing revision)
Green Chemistry Institute (GCI)/American Chemical Society (ACS)/NSF
International

# **Business-NGO Working Group Guiding Principles for Chemicals Policy, Draft Implementation Guide**

(in Beta testing and under revision)

**Sector-specific supply chain chemical reporting guidelines**, e.g., JIG, GADSL, ATMI

# GC3 Tools Workgroup Update

# Potential project for next year:

"Chemical Data Summit," a meeting to present and discuss all aspects of chemical data:

- Fabricators/formulators chemical data requirements and methods to gather data from supply chains
- Efforts by chemical/component suppliers to provide data
- Uses of chemical data to design safer products
- Chemical data management systems
- What consumers and NGOs are seeking regarding information on chemicals in products
- Information systems to provide data to consumers
- TSCA reform and chemical data requirements

## **Target Audience:**

- Fabricators, formulators, suppliers, trade groups
- Chemical data management software companies
- NGOs (environmental, consumer, and others)
- Government
- Universities

