Construction Specialties, Inc.

- Design, develop & sell Architectural building products.
- Privately held, founded in 1948
- 30 locations in 19 countries
- Worldwide revenues of $300 million & staff of ~1,600
- 12 product/product lines Cradle-to-Cradle Certified Silver
- 1 product, Acrovyn 4000, Cradle-to-Cradle Gold

Our “wake up call”

• STD 22 SEPT '90 •

Hazardous waste burner is coming

By MARK MARONEY

LEWISBURG — A hazardous waste incinerator will be built in Union County.

That announcement was made at a press conference yesterday at Lewisburg.

Those supporting the hazardous waste incinerator at the conference were from United States Pollution Control, Incorporated.

Others, the majority at the two press conferences held yesterday at Brewswood Inn and the Union County Courthouse, were against a hazardous waste incinerator and waste facility being built in Gregg Township — against it for many reasons.

But, whatever the pros and cons were, the people at both conferences had no choice but to accept the news presented to them by Drew Lewis, chief executive officer and consultant for United States Pollution Control, Inc. (USPCI), Bethlehem.

Lewis announced that USPCI had recently purchased the real estate interests in the 700-acre Susquehanna Industrial Park, from Pennwood Development Corporation.

In less than one day, the media, legislators and members of the concerned public saw principals representing the interests of a powerful company based in Bethlehem announce the purchasing of land in Union County to build a waste management facility, that will include a hazardous waste incinerator capable of burning 700,000 tons of waste per year.

"We are going to sit on this ground for three to five years...the process is already set in motion," Lewis said. "We'll be facing many lawsuits," he said. USPCI, Inc. is a subsidiary of the Union Pacific Corporation.

Lewis, formerly CEO of Environmental Management Services (EMS), said USPCI will build a hazardous waste management facility containing an incinerator as well as a waste recycling center, a laboratory and an ash management facility. It was also announced that EMS was purchased by USPCI.

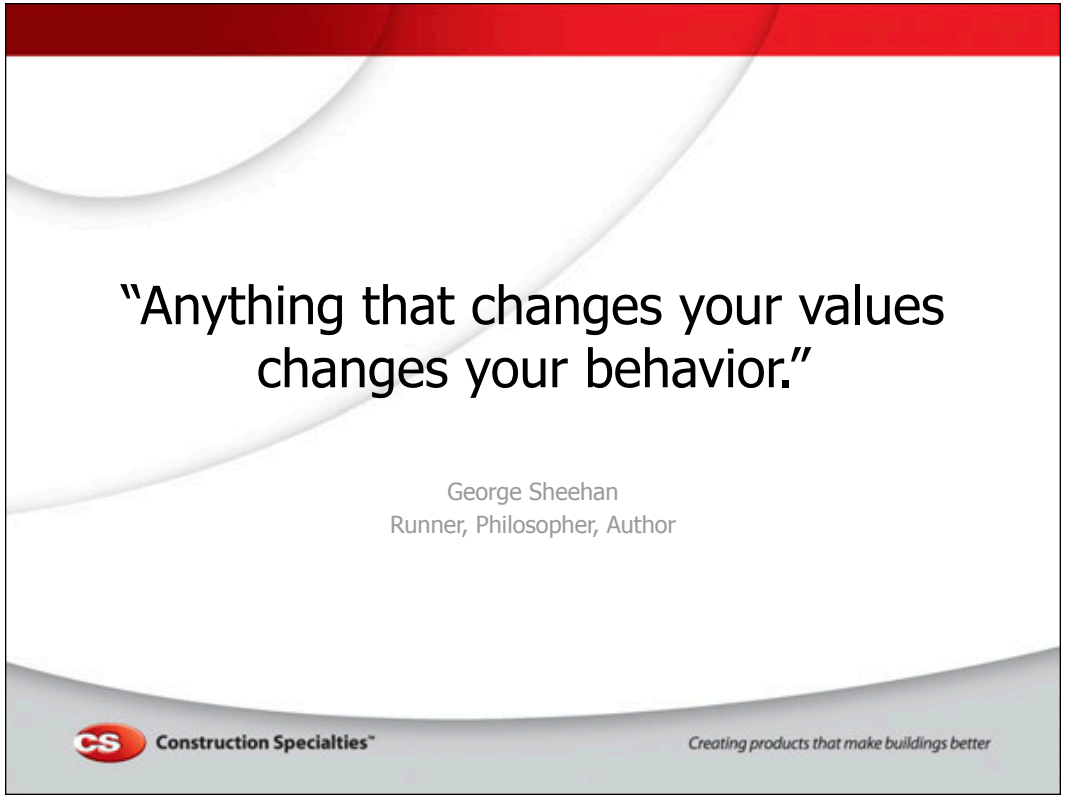
"I'm not at all happy the way I found this out," said Robert Garrett, executive director of the Union County Economic Development Council. Garrett said he has, for the past two years, been given misinformation about the incineration process.

"I've been led to believe that the incineration of hazardous waste is clean, safe...the information that I've received in the last month indicates to me that it is neither clean nor safe and that the technology is not developed to the point where it would be a good neighbor or safe thing to have in our state. He is in the process of introducing legislation next week putting the prisons on the exclusionary distance of one mile from the incinerator. He will be asking Gov. Robert Casey to get involved in the issue on many fronts.

Fairchild questioned whether, if an accident should arise, an evacuation of 2,400 prisoners and 650 staff was feasible.

Senator Rodger Madigan (R-) is opposed at this juncture. "I will work closely with Representative Fairchild," he said.

Rep. Mark Phillips (R-108) is



I'm not certain whether our values changed or that LEED provides a means by which our values are actualized.

"The really great thing about buildings is that they're the one universally central point where 90% of all human activity takes place and the cure begins. Here, change isn't dependent upon larger societal behaviors or preferences; it's dependent upon building design and materials."

Manage all of our environmental aspects and impacts within a world class standard:

Certificate US10/74584

The management system of

Construction Specialities

0696 Route 405 Highway
Muncy, PA 17756
United States

has been assessed and certified as meeting the requirements of

ISO 14001:2004

For the following activities:

The manufacturing of construction specialties such as Handrails, Doorway Flooring, Wall Panels and Expansion Joints, excluding the manufacture of doors in the Muncy, PA facility and corporate marketing activities at the Muncy & Montgomery facilities.

Further clarifications regarding the scope of this certificate and the applicability of ISO 14001:2004 requirements may be obtained by consulting the organization.

This certificate is valid from 4 February 2010 until 3 February 2013 and remains valid subject to satisfactory surveillance audits.
Recertification audit due a minimum of 60 days before the expiration date.
Issue 1. Certified since 4 February 2010

This is a multi-site certification.
Additional site details are listed on subsequent pages.

Authorised by

Zachary C Pruenik
Accreditation Manager, North America
SGS US Testing Company Inc., Systems & Services Certification
201 Route 17 North, Rutherford, NJ 07070
t (201) 508-3698 f (201) 508-4305 www.sgs.com

This certificate remains the property of SGS and shall be returned upon request

SGS

SYSTEM CERTIFICATION ISO 14001:2004 SGS

ANAB ACCREDITED

CS Construct… …uildings better

We have a lot to keep track of and without structure and accountability we'd soon lose our way.
For us that means ISO 14001 is the framework through which we manage what we're doing, audit it and continue to improve upon what we did yesterday.
Being audited and scrutinized by World Class auditors keeps us grounded.

Construction Specialties Chemicals Policy

As recommended by Clean Production's
Business-NGO Working Group

1. **Know and disclose product chemistry**. We will identify the substances associated with and used in our products across their lifecycle and will increase as appropriate the transparency of the chemical constituents of our products, including public disclosure of chemicals of high concern and 3rd-party certification(s).

2. **Assess and avoid hazards.** We will determine the hazard characteristics of chemical constituents and formulations in our products, use chemicals with inherently low hazard potential, prioritize chemicals of high concern for elimination, minimize exposure when hazards cannot be prevented, and redesign products and processes to avoid the use and generation of hazardous chemicals.

3. **Commit to continuous improvement.** We will establish operational governance structures; policies and practices that create a framework for the regular review of product and process chemistry, and that promote the use of chemicals, processes, and the redesign/creation of products with inherently lower hazard potential.

4. **Support public policies and industry standards that:** advance the implementation of the above three principles, ensure that comprehensive hazard data are available for chemicals on the market, take action to eliminate or reduce known hazards and promote a greener economy, including support for green chemistry research and education.

CS Construction Specialties™ *Creating products that make buildings better*

A Google search will reveal that there are 50,000 to 60,000 chemicals/combinations influencing our lives. But only 1/2 of 1% have been looked at by EPA.
Regulation alone is never enough answer to such problems.
Industry must take responsible action.

Cradle to cradle Certification Criteria		Basic	Silver	Gold	Platinum
1.0 Materials					
All materials/ingredients identified down to 100 ppm level		●	●	●	●
Defined as biological or technical nutrient		●	●	●	●
All materials assessed based on their intended use and impact on Human/Environmental Health according to the following criteria					
~~Human Health~~	~~Environmental Health~~				
Carcinogenicity	Fish Toxicity				
Endocrine Disruption	Algae Toxicity				
Mutagenicity	Daphnia Toxicity				
Reproductive Toxicity	Persistence/Biodegradation	●	●	●	●
Teratogenicity	Bioaccumulation				
Acute Toxicity	Ozone Depletion/Climatic Relevance				
Chronic toxicity	~~Material Class Criteria~~				
Irritation	Content of Organohalogens				
Sensitization	Content of Heavy Metals				
Strategy developed to optimize all remaining problematic ingredients/materials		●	●		
Product formulation optimized (i.e. All problematic inputs replaced/phased out)				●	●
No wood sourced from endangered forests				●	●
Meets Cradle to Cradle emission standards				●	●
All wood is FSC Certified					●
Contains at least 25% GREEN assessed components					●
2.0 Material reutilization/Design for Environment					
Defined the appropriate cycle (Technical or Biological) for the product and developing a plan for product recovery and reutilization		●	●	●	●
Well defined plan (including scope and budget) for developing the logistics and recovery system for this product				●	●
Recovering remanufacturing or recycling the product into new product of equal or higher value					●
Product has been designed/manufactured for he technical or biological cycle and has a (re) utilization score >= 50			●	●	●
Product has been designed/manufactured for he technical or biological cycle and has a (re) utilization score >= 65				●	●
Product has been designed/manufactured for he technical or biological cycle and has a (re) utilization score >= 80					●
3.0 Energy					
Characterized energy use and source(s) for product manufacture/assembly		●	●	●	●
Developed strategy for using current clean income for product manufacture/assembly			●	●	●
Using 50% clean income for product final manufacture/assembly				●	●
Using 50% clean income for entire product					●
4.0 Water					
Created or adopted water stewardship principles/guidelines			●	●	●
Characterized water flows associated with product manufacture					●
Implemented water conservation measures					●
Implemented innovative measures to improve quality of water discharge					●
5.0 Social Responsibility					
Publicly available corporate ethics and fair labor statement(s) adopted across entire company			●	●	●
Identified third party assessment system and begun to collect data for that system				●	●
Acceptable third party social responsibility assessment, accreditation or certification					●

MBDC

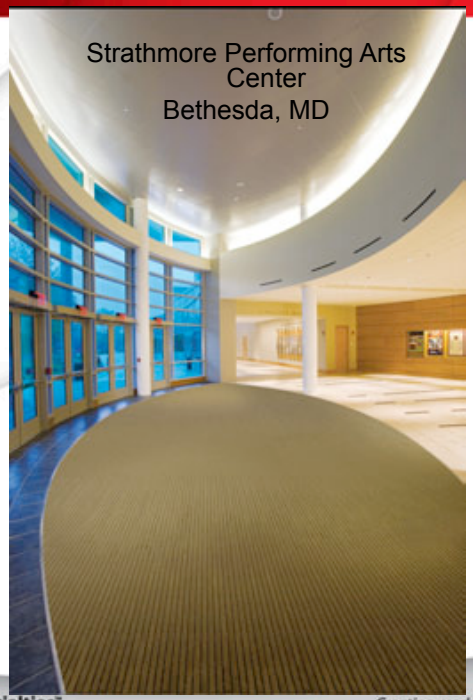
CRADLE TO CRADLE[SM] CHEMICAL PROFILING CHART v1.0

Criterion	Possible Sources	Green	Yellow	Gray	Red
Carcinogenicity	MAK, IARC, ACGIH, NTP, EPA	Not known or suspected of being a carcinogen; Negative Prokaryotic assays in the absence of Eukaryotic	Not classifiable as a human carcinogen	No mutagenicity data	Known or suspected Carcinogen
Disruption of Endocrine System	Published lists (e.g. Colborn list, EU list, etc) and Peer Reviewed research reports	Not known or suspected of being an Endocrine Disruptor			Listed as a known/suspected endocrine disruptor supported by peer reviewed science
Mutagenicity	Peer reviewed test data (e.g. NTP, CCRIS, GENETOX)	Product has been tested and is not mutagenic to eukaryotes	Negative Ames or prokaryotic assays only	No data available	Positive Eukaryotic mutagenicity tests
Reproductive Toxicity	Peer reviewed test data, CA 65 list, MAK	Not known or suspected of being a reproductive toxin			Substance has positive test results or is listed as a reproductive toxin
Teratogenicity	Peer reviewed test data, MAK list, CA 65 list	Not known or suspected of being a Teratogen	Not teratogenic as long as MAK value is observed, equivocal teratogenicity data		Positive teratogenic test results or listed as a known or suspected teratogen
Acute Toxicity	MSDS, RTECS, NLM, IUCLID	Oral/Dermal LD50 > 2000 mg/kg Inhal. LC50 (4H) > 4,000 mg/m3	2000 mg/kg > Oral/Dermal LD50 > 200 mg/kg 4000 mg/m3 > Inhal. LC50 (4H) > 400 mg/m3	No data available	Oral/Dermal LD50 < 200 mg/kg Inhal. LC50 (4H) < 400 mg/m3
Chronic Toxicity	Peer reviewed studies	NOAEL > 100 mg/kg; low chronic toxicity	Moderate chronic toxicity	No data available	High chronic toxicity
Sensitization	MAK list, NLM, MSDS, BGVV list, Peer reviewed studies	Not sensitizing to skin or airways (either proven via experience or test)	Equivocal sensitization data	No data available	Listed as a skin or airway sensitizer or has tested positive in sensitization tests
Irritation of Skin/Mucous Membranes	RTECS, MSDS, EU Risk Phrases	Mild or no irritation	Mild to moderate irritation	No data available	Severe irritation, risk of severe burns or serious damage to eyes
Other (carrier function, skin penetration potential, immunosuppressant, etc)					

Criterion	Possible Sources	Green	Yellow	Gray	Red
Vertebrate Toxicity (fish)	EPA ECO-TOX, MSDS, HSDB, QSAR data	96H LC50 > 100 mg/L QSAR 96H LC50 > 100 mg/L	100 mg/L > 96H LC50 > 10 mg/L 100 mg/L > QSAR 96H LC50 > 1 mg/L	No data available	96H LC50 < 10 mg/L QSAR 96H LC50 < 1 mg/L
Invertebrate Toxicity (daphnia)	EPA ECO-TOX, MSDS, HSDB, QSAR data	96H LC50 > 100 mg/L QSAR 96H LC50 > 100 mg/L	100 mg/L > 96H LC50 > 10 mg/L 100 mg/L > QSAR 96H LC50 > 1 mg/L	No data available	96H LC50 < 10 mg/L QSAR 96H LC50 < 1 mg/L
Aquatic Plant Toxicity (algae)	EPA ECO-TOX, MSDS, HSDB, QSAR data	96H LC50 > 100 mg/L QSAR 96H LC50 > 100 mg/L	100 mg/L > 96H LC50 > 10 mg/L 100 mg/L > QSAR 96H LC50 > 1 mg/L	No data available	96H LC50 < 10 mg/L QSAR 96H LC50 < 1 mg/L
Persistence/Biodegradation	MSDS, HSDB, Peer reviewed test data, QSAR	T(1/2) < 30/90 days water/soil/sediment Readily Biodegradeable (based on OECD tests)	30/90 days < T(1/2) < 60/180 days air/soil Ultimately Biodegradeable but not readily	No data available	T(1/2) > 60/180 days water/soil Not biodegradable/persistent
Bioaccumulation	MSDS, HSDB, Peer reviewed test data, QSAR	BCF < 100	100 < BCF < 1000	No data available	BCF > 1000
Contents of Halogenated Organics	Chemical Structure databases	Organohalogen content < 0.01%			Organohalogen content >= 0.01%
Metal Content	Chemical Structure databases	Toxic Metal content < 0.01%			Toxic Metal Content >= 0.01%
Climate Relevance / Ozone Depletion	EPA lists of ODP and GWP	Not a listed class 1 or 2 ozone depletor			Listed as a class 1 or 2 ozone depletor
Other					

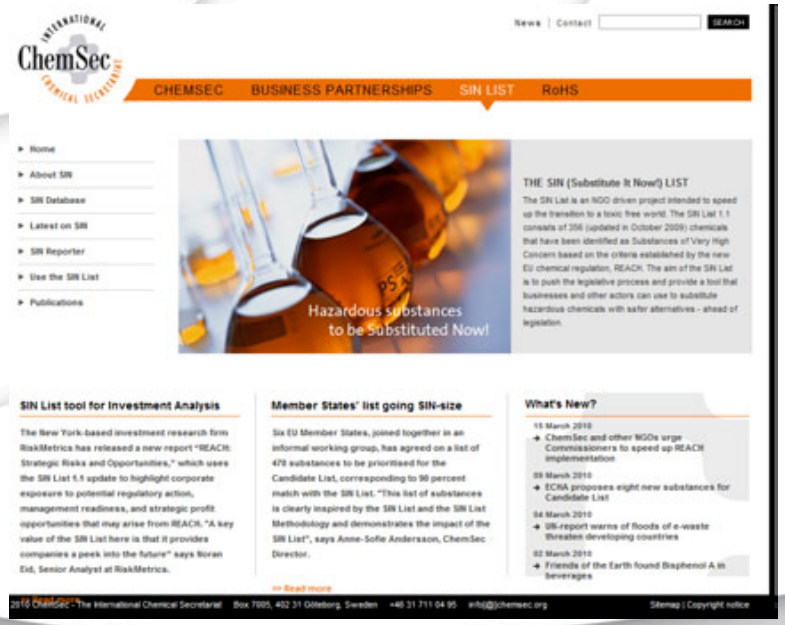
Challenges of getting toxics of our products

- Internal – lack of consistent consensus
- Moving forward & backward at the same time
  - New Product Development: informed and convinced
  - MBDC review of existing
- Alternatives are available, but…



Construction Specialties™

Creating products that make buildings better



Construction Specialties™

Creating products that make buildings better

Perkins-Will Precautionary List
Radical Transparency

- Bisphenol A (BPA)
- Phthalates
- Chlorinated Polyethylene (CPE)
- CPVC
- Chloroprene (2-Chlor-1, 3-Butadine)
- Chlorosulfonated Polyethylene (CSPE)
- PVC
- Halogenated & Brominated Flame Retardants
- Polystyrene
- Polyurethane Foam
- Urea-Formaldehyde
- VOC
- Cadmium
- Copper (exterior)
- Hexalavent Chromium (V1)
- Lead
- Mercury
- Organostannic Compound
- Bromochlorodifluorocmethane
- Chloroforocarbon (CFC)
- Hydrochloroforocarbon (HCFC)
- Perflurocarbons (PFC)
- Arsenic
- Creosote
- Pentachlorophenol

We created and developed the Wall Protection business in the late 60's and these are the oldest of our catalog covers I could find.

We used the best product of the times. PVC.

And continued to use it exclusively until 2004 when we added a non-pvc material to the line.

We're now moving away from PVC all together and by mid-year, or earlier as need tooling comes on line, will sell only a PETG PBT-free product.

cradletocradle™
PRODUCT CERTIFICATION
SILVER

IS HEREBY GRANTED JANUARY 9, 2010 TO JANUARY 8, 2011

Construction Specialties, Inc.
Acrovyn® 4000 Wall Protection

William McDonough
PRINCIPAL AND CO-FOUNDER

Michael Braungart
PRINCIPAL AND CO-FOUNDER

Jay Bolus
VP, TECHNICAL OPERATIONS

MBDC

Cradle to Cradle is a service mark of MBDC.

Construction Specialties™

Creating products that make buildings better

TSCA Reform

- The need for environmentally responsible building products is estimated to be $10 billion per year. The market awaits.
- Availability of info for new product development will shorten time to market entry.
- Information available without each having to pay/gather on their own will reduce cost of R&D.
- Availability of new materials
- Buildings are at the forefront. 90% of what we do takes place in a building.
  - Furnishings & building materials act on our indoor environment.
  - Environmentally responsible design is chemically responsible design.
- Outcome & behavior cannot be separated; it's not just about products
- Public discussion = public education = market change & market pulls business forward.

Influencing beyond our borders:
Working with our suppliers in the Far East we asked that they implement ISO 14001 as their environmental management system.

CQC

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: [illegible]

We hereby certify that

[redacted]

[redacted] Hubei Province, P.R.China

by reason of its

Environmental Management System

has been awarded this certificate for compliance with the standard

ISO14001:2004

GB/T 24001-2004

The Environmental Management System Applies to the following area:

Design and Manufacture of Aluminium and Aluminium Alloy Casting Coil, Aluminium Sheet, Aluminium Strip, Plate and Foil, Aluminium Hydrophilic Fin Stock, Aluminium Coating Foil and Plate, Extrusion and Profile, Anodized Profile, Litho Sheet and Positive PS Plate and Related Management Activities

Certified since: Feb. 04, 2010 Valid from: Feb. 04, 2010 Valid until: Feb. 03, 2011

CNAS IAF

Signed by: Wang Haiyan

CHINA QUALITY CERTIFICATION CENTRE

Extend the boundaries

"The idea of aspirational goals is absolutely critical for changing the future."

Kevin Hydes
Chair, World Green Building Council