

**Contact Information**

A) Date: \_\_\_\_\_

B) Applicant Company: \_\_\_\_\_

C) Manufacturer:  
(if not 'Applicant Company') \_\_\_\_\_

D) Primary SIC / NAICS  
Number: \_\_\_\_\_

E) Secondary SIC / NAICS  
Number: \_\_\_\_\_

F) Product Trade Name: \_\_\_\_\_

G) Product Type: \_\_\_\_\_

H) Contact Person: \_\_\_\_\_

I) Mailing Address: \_\_\_\_\_

J) Telephone: \_\_\_\_\_

K) Fax: \_\_\_\_\_

L) Email: \_\_\_\_\_

**1 Materials**

**Questions for Silver, Gold and Platinum Tiers**

- A) Complete the attached "Cradle to Cradle Certification Applicant Data Form -- Materials Appendix."
- B) Attach all supplier data forms for material ingredient data.
- C) Attach process flow diagrams for the product assembly/manufacturing process, possibly including mass balance information for inputs and outputs.
- D) List all facilities in which the finished product is assembled/manufactured (i.e., facilities in which suppliers' materials/components are combined to create the finished product). Please attach additional sheets, if necessary. Note: You will use the 'Facility Label' identifiers to report facility-specific data in other sections of this application.

Facility Label	Facility Name	Geographical Location	Contact Person and Contact Information
Facility A			
Facility B			
Facility C			
Facility D			
Facility E			

E) If your product contains materials assessed by MBDC as 'Red' for human and environmental health, then attach written plan (including budget and timeline) for the eventual phase-out/replacement of these ingredients.

**Question for Gold and Platinum Tiers Only**

F) If all ingredients previously assessed as 'Red' have been removed from your product and the revised formulation has been fully assessed by MBDC and no other 'Red' ingredients are included, then acknowledge by signing below.

\_\_\_\_\_

Signature and Date	Printed Name	Title
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G) If the product is designed to be used within building interiors, then attach product emission testing results from an approved lab, for either ASTM D5116 (small chamber) or ASTM D6670 (large chamber).

**2 Material Reutilization/Design for Environment**

**Questions for Silver, Gold and Platinum Tiers**

A) For which of the following metabolisms has the product been designed?

- 1) Biological metabolism \_\_\_\_\_ (i.e., intention is for product to be composted following use)
- 2) Technical metabolism \_\_\_\_\_ (i.e., intention is for product to be recycled following use)
- 3) Both \_\_\_\_\_ (i.e., intention is for product to be separated into biological and technical materials following use, and for these to be composted and recycled)

B) If the product contains both biological and technical nutrient materials, describe how materials are marked and attached to one another to simplify post-use disassembly.

C) Please complete the following fields in order for MBDC to calculate the product's Nutrient (Re)utilization Score.

Percent of the product:

- 1) Recyclable \_\_\_\_\_ (MBDC will complete) MBDC will use the material data in Section 1 to determine the recyclable percentage. Based on the Federal Trade Commission's definition; requires a commercially-available recycling technology for the specific material.
- 2) Compostable \_\_\_\_\_ Materials which are considered compostable based on the DIN or ASTM standards.
- 3) Recycled content \_\_\_\_\_ Material which is derived from a post-consumer or post-industrial/pre-consumer recycled source (please indicate). Recycled content will only be counted if it does not contain any problematic inputs (e.g., recycled content PVC will not count).

4) Rapidly renewable content \_\_\_\_\_ Material which is either plant- or animal-based and considered rapidly renewable (i.e., can be regrown and harvested within a "minimal" amount of time).

$$\text{Calculation: } \frac{(\% \text{ of the product considered Recyclable or Compostable}) * 3 + (\% \text{ Recycled or Rapidly Renewable content}) * 1}{4}$$

Nutrient (Re)utilization Score \_\_\_\_\_

D) If post-use product recovery and material reutilization (i.e., composting/recycling) systems are not currently in place and in-depth planning for those systems has not occurred, then sign below to acknowledge that your company is developing a plan to establish such systems in the future.

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**Question for Gold and Platinum Tiers Only**

E) If post-use product recovery and material reutilization systems are not currently in place, then attach a copy of your well-defined plan for those activities, including scope, timeline, budget and partners.

**Question for Platinum Tier Only**

F) If post-use product recovery and material reutilization systems are currently in place and operating, then attach documentation of this process and how used products and materials are converted into new products.

**3 Energy**

For the following questions, please submit average energy data based on the previous six months of operations.

**Questions for Silver, Gold and Platinum Tiers**

A) For each facility within which the finished product is assembled/manufactured, how much energy\* is used to assemble/manufacture the product? Calculate these values either based on metering of the specific production line or allocating full facility energy use to the portion of manufacturing represented by this product. Please enter values and units in the table on the next page.

Facility Label	Assembly Energy* (MJ/kg of product; or indicate correct units)	Calculation Method Used	
		Inline Metering	Production Allocation
Facility A			
Facility B			
Facility C			
Facility D			
Facility E			

\*Assembly/manufacturing energy is the portion of the facility's total energy use which can be attributed to assembling the finished product, plus an appropriate allocation of energy used in other facility operations.

B) For each facility, what percentage of assembly/manufacturing energy\* is derived from renewable sources (e.g., wind, biomass, hydroelectric, solar)? Renewable energy can be obtained through on-site production, direct purchase or purchase of Green-e certified renewable energy certificates. If applicable, attach copies of renewable energy certificates or contracts with providers.

Facility Label	Percentage of Assembly Energy Derived from Renewable Source				
	Wind	Biomass	Hydroelectric	Solar	Other (specify)
Facility A					
Facility B					
Facility C					
Facility D					
Facility E					

\*Assembly/manufacturing energy is the portion of the facility's total energy use which can be attributed to assembling the finished product, plus an appropriate allocation of energy used in other facility operations.

C) If not all of the energy for the product's final assembly/manufacturing (within each facility) is derived from renewable sources, then attach a copy of a plan for supplying that energy via current solar income, including a timeline, measurable goals and milestones.

**Question for Gold and Platinum Tiers Only**

D) If all of the energy for the product's final assembly/manufacturing (within each facility) is derived from renewable sources, then acknowledge by signing below. If applicable, attach copies of renewable energy certificates or contracts with providers.

Facility A:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility B:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility C:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility D:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility E:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**Questions for Platinum Tier Only**

- E) Attach all supplier data forms, including the quantities and sources of their manufacturing energy, which must be completely derived from current solar income.
- F) If all of the energy for the entire product's manufacturing (within each final assembly facility, as well as each supplier's facility) is derived from renewable sources, then acknowledge by signing below. If applicable, attach copies of renewable energy certificates or contracts with providers. Note the applicant company can purchase certificates equal to the total energy used to produce all components.

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**4 Water**

**Question for Silver, Gold and Platinum Tiers**

- A) Attach your company's set of principles or guidelines that will inform your facility's future strategies for protecting and preserving the quality and supply of water resources. See the "Cradle to Cradle Certification Program" overview document for example principles.

**Questions for Gold and Platinum Tiers Only**

- B) For each facility in which your finished product is assembled/manufactured, complete the following questions, adapted from the Global Environmental Management Initiative's Water Source Profile Form <[www.gemi.org/water/resources/WaterSourceProfileForm.doc](http://www.gemi.org/water/resources/WaterSourceProfileForm.doc)>. Copy and complete the questions for each facility.

Facility A: (or indicate correct facility label)

- 1) Water source(s) \_\_\_\_\_
- 2) What type of water source(s) is it?
  - Aquifer \_\_\_\_\_
  - Surface water \_\_\_\_\_
  - Reclaimed \_\_\_\_\_
  - Other (please specify) \_\_\_\_\_
  - Additional comments \_\_\_\_\_
- 3) Where is the source located? \_\_\_\_\_
- 4) What are the other major demands on the source?
  - Industrial \_\_\_\_\_
  - Municipal \_\_\_\_\_
  - Ecosystem \_\_\_\_\_
  - Additional comments \_\_\_\_\_

C) Is any assembly facility located within or adjacent to a Ramsar listed wetland <[www.ramsar.org/index\\_list.htm](http://www.ramsar.org/index_list.htm)>?

Facility Label	Ramsar Wetland Site? (Yes / No)	Name of Wetland
Facility A		
Facility B		
Facility C		
Facility D		
Facility E		

D) Using the US EPA website <<http://cfpub.epa.gov/surf/locate/index.cfm>>, identify the watershed within which each assembly facility operates.

Facility Label	Watershed Name	USGS Cataloging Unit Number
Facility A		
Facility B		
Facility C		
Facility D		
Facility E		

E) Under the header "Assessments of Watershed Health" on the EPA web page for your watershed (see above), determine whether each facility withdraws water from or discharges effluent to a water source listed as "impaired." Also, identify the impairment concerns near each facility and indicate how the facility impacts these concerns.

Facility Label	Withdraws/Discharges to Impaired Water Source?	Local Impairment Concerns	Impacts by Facility
Facility A			
Facility B			
Facility C			
Facility D			
Facility E			

F) Is each facility considered a major or minor user of water relative to other users within its watershed? Contact the local or regional water authority for this information.

Facility Label	Major / Minor Water User Within Watershed
Facility A	
Facility B	
Facility C	
Facility D	
Facility E	

G) Conduct a facility-wide water audit for each product assembly/manufacturing facility. For water balance calculations, use the attached "Cradle to Cradle Certification Applicant Data Form -- Water Appendix." Copy and complete the table and appendix form for each product assembly/manufacturing facility.

Facility A: (or indicate correct facility label)

#	Water Use	Cubic Meters Per Year	Percent of Total Use
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
	Subtotal (water use)		
	Total water purchased or obtained		100.0%
	Difference (unaccounted for)		

Example Facility:

#	Water Use	Cubic Meters Per Year	Percent of Total Use
1)	Cooling: tower make-up and boiler make-up	7,966	38.3%
2)	Process use: parts and mixing vat cleaning	3,848	18.5%
3)	Domestic: faucets, toilets and showers	3,536	17.0%
4)	Once-through cooling: air compressors and pumps	2,388	11.0%
5)	Landscaping	832	4.0%
6)	General washing, sanitation, and maintenance	561	2.7%
7)	Leaks (detected)	416	2.0%
8)	Food preparation: dishwasher	312	1.5%
9)			
10)			
	Subtotal (water use)	19,859	95.5%
	Total water purchased or obtained	20,800	100.0%
	Difference (unaccounted for)	941	4.5%

H) For each facility, how much process water is used to assemble/manufacture the product (i.e., all water for the assembly process and other facility operations, on a per-product basis)? Calculate these values either based on metering of the specific production line or allocating full facility water use to the portion of manufacturing represented by this product. Please enter values and their units in the table on the next page.

Facility Label	Process Water (liters/kg of product; or indicate correct units)	Calculation Method Used	
		Inline Metering	Production Allocation
Facility A			
Facility B			
Facility C			
Facility D			
Facility E			

I) What measures to conserve water resources have been taken at the facility for the following areas, as identified in North Carolina's "Water Efficiency Manual for Commercial, Industrial and Institutional Facilities" <[www.p2pays.org/ref/01/00692.pdf](http://www.p2pays.org/ref/01/00692.pdf)>?

- |                                   |                              |
|-----------------------------------|------------------------------|
| Embodied in Products              | Personnel                    |
| Process and Equipment Use         | Consumption                  |
| Cleaning                          | Medical                      |
| Metal finishing                   | Sanitary and Domestic        |
| Painting                          | Toilets                      |
| Dyeing and finishing              | Urinals                      |
| Photo processing                  | Faucets                      |
| Product fluming (water transport) | Showers                      |
| Cooling and Heating               | Kitchen                      |
| Single-pass cooling               | Cafeteria uses               |
| Cooling towers/chillers           | Dishwashers                  |
| Boiler, hot water, steam systems  | Ice machines                 |
| Air washers                       | Faucets/taps                 |
| Boiler scrubber                   | Outdoor Uses                 |
| Other Facility Support            | Landscaping                  |
| Floor washing                     | Irrigation                   |
| Air emission wet scrubbers        | Particulate emission control |
| Building washing                  | Decorative fountains/ponds   |
| Quality assurance testing         | Vehicle washing              |
| Laboratories                      |                              |
| Wastewater treatment              |                              |

J) Does each finished product assembly/manufacturing facility meet or exceed EPA and state water quality regulations for discharges, under EPA's National Pollution Discharge Elimination System (NPDES)? Each facility must document it has not been designated as "Significant Noncompliance (SNC)" or "non-major / minor" chronic violator by its state for a period of two years prior to application date. If true, then acknowledge by signing on the next page and attach documentation for each facility. (If any finished product facility is listed under either violation categories, the applicant must wait one year before applying for Gold certification.)



Facility A:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility B:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility C:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility D:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Facility E:

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

K) For each facility, list the NPDES permit number and name of designated water coordinator.

Facility Label	NPDES Permit Number	Water Coordinator: Name and Contact Information
Facility A		
Facility B		
Facility C		
Facility D		
Facility E		

**Questions for Platinum Tier Only**

L) Describe water conservation improvements that have been implemented during the last five years at each assembly facility for the areas listed in Question I above. Indicate the water use reductions in terms of liters/kg or gal/lb of finished product. Attach documentation regarding the measures, technologies or process changes implemented.

M) Describe innovative projects for reclaiming or recycling water resources or preserving water quality that have been implemented at each assembly facility. Below are some examples of innovative processes. Attach documentation for each facility.

Alternative Treatment Systems

- “Living machines”
- Constructed wetlands

Novel Demand Reduction Strategies

- Waterless urinals
- Flow control technologies
- Personnel education programs
- Low-flow fixtures
- Use of gray water

Reclamation and Recycling of Process Waste Water

Water quality matched to task requirements

Water cascaded to lower-quality tasks to maximize use prior to treatment/discharge

Non-point Source Pollution Reduction

Green roofs

Composting toilets

Drainage swales

Capture and storage of roof/landscape run-off for reuse

Native/xeriscape plantings to eliminate landscape irrigation

Porous pavement to capture rainwater for landscape irrigation/gray water use

## 5 Social Responsibility

### Questions for Silver, Gold and Platinum Tiers

- A) Attach the public statement(s) your company has adopted or is implementing regarding its social and ethical performance goals. The statement(s) must address the areas listed below and be signed by the Chairman/CEO, either formally or in effect. Indicate whether the statement(s) has only been adopted at this time or currently is being implemented. See the "Cradle to Cradle Certification Program" overview document for example statements.

Labor Practices\*

Corporate and Personal Ethics\*

Supplier relationships

Competitive behavior

Integrity

Customer Service

Local Community

\*This area must be addressed within the statement(s).

- B) Indicate all locations where the statement(s) is/are available for employee review.

- 1) Posted in facilities \_\_\_\_\_
- 2) Employee handbook \_\_\_\_\_
- 3) Employee training \_\_\_\_\_
- 4) Company intranet \_\_\_\_\_
- 5) Company newsletter \_\_\_\_\_
- 6) Other (please specify) \_\_\_\_\_

- C) Indicate all locations where the statement(s) is/are available for public review.

- 1) Public website \_\_\_\_\_
- 2) Annual report \_\_\_\_\_
- 3) Press release \_\_\_\_\_
- 4) External newsletter \_\_\_\_\_
- 5) Marketing materials \_\_\_\_\_
- 6) Other (please specify) \_\_\_\_\_

**Questions for Gold and Platinum Tiers Only**

D) Is your company exploring certification/accreditation by another organization for labor practices at all facilities in which the finished product is assembled/manufactured? The labor practice assessment system must feature the characteristics listed below. If true, then acknowledge by signing below. Provide contact information for the assessment organization. See the "Cradle to Cradle Certification Program" overview document for suggested systems.

- Internationally Accepted
- Intra-industry or Inter-industry Framework
- Minimum Components to be Assessed
  - Child labor
  - Discrimination
  - Compensation
  - Forced labor
  - Discipline/harassment
  - Freedom of association
  - Health and safety
  - Working hours
  - and collective bargaining

Signature and Date	Printed Name	Title
Certification/Accreditation Organization	Contact Information for Assessment Organization	

E) List the labor practice criteria for which your company has begun to gather data for initial self-assessment of all product assembly facilities. Provide all/some of the available data (preferably in the format used in the assessment system) in the table below or attach the certifying/accrediting organization's form/additional sheets, as necessary.

#	Labor Practice Criterion	Criterion Category	Current Data
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

**Questions for Platinum Tier Only**

F) Has your company been certified/accredited for labor practices within all assembly/manufacturing facilities? If true, then acknowledge by signing below. Attach documentation from assessment organization. Also, submit copies of future approvals as they are received (for regular verification updates, as required by the assessment system).

Signature and Date	Printed Name	Title
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G) Have your suppliers adopted statements regarding their social and ethical performance goals? In addition, have suppliers implemented any necessary workplace improvements in order to better achieve those goals? If true, then acknowledge by signing below. Summarize these activities and attach supplier forms and any other documentation.

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

### Additional Information

Please provide any additional comments or data for use within your product evaluation.

### Signature

"As an authorized representative of the applicant company, I verify that all responses provided above are correct, based upon our currently available data."

\_\_\_\_\_  
Signature and Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title