



Clean Production in the Renewable Sector: Chemical Footprint Project (CFP) Survey & GreenScreen Certified® Cleaners & Degreasers in Manufacturing



CFP Survey is a Holistic Chemicals Management Assessment Framework for assessing & benchmarking progress away from chemicals of concern to safer solutions

A blue rounded square icon containing a white clipboard with a checklist.

Management Strategy

A blue rounded square icon containing an orange circle with two test tubes inside.

Chemical Inventory

A blue rounded square icon containing a green footprint with a chemical structure inside.

Footprint Measurement

A blue rounded square icon containing a magnifying glass over a document with a checkmark.

Disclosure & Verification



- **Investor Signatories represent \$3 trillion in assets under management** and include: Aviva Investors, Boston Common Asset Management, Trillium Asset Management, and Bank J. Safra Sarasin Ltd., and UBS Asset Management
- **Health Care and Retail Signatories represent over \$800 billion in purchasing power** and include: Common Spirit Health, Kaiser Permanente, Vizient, Target, Walmart, and Whole Foods Markets



CFP Surveys



General Survey for all sectors

- 3 stand-alone modules:
 - Manufacturing
 - Products
 - Packaging


<https://chemicalfootprint.org/assess/survey-guidance>




Solar Survey

- 2 stand-alone modules:
 - Manufacturing
 - Products

<https://chemicalfootprint.org/survey/solar-sector>

 MANAGEMENT STRATEGY 20 points		
#	Topic	Points
M 1	Chemicals policy	8
M 2	Business Strategy & Sustainability	4
M 3	External engagement	
M 4	Accountability	

 CHEMICAL INVENTORY 30 points		
#	Topic	Points
I 1	Manufacturing Restricted Substances List (MRSL)	
I 2	MRSL Compliance	
I 3	Data collection	5
I 4	Full chemical ingredient information	5
I 5	Data management	5
I 6	Supplier conformance	5

 FOOTPRINT MEASUREMENT 33 points		
#	Topic	Points
F 1	Chemicals of High Concern (CoHCs) reduction goal	6
F 2	Footprint measurement	8
F 3	Footprint change	10
F 4	Hazard assessment	3
F 5	Safer alternatives	

 DISCLOSURE & VERIFICATION 22 points		
#	Topic	Points
D 1	Chemical ingredients	8
D 2	CFP responses	5
D 3	CFP score	5
D 4	Verification	4

Revised in the Solar Survey

Revised in the Solar Survey



Solar Survey-Manufacturing Module: Revisions to Questions I1-Manufacturing RSL (MRSL) + F1-Footprint Reduction Goal

Added the following lists:

- **IEC Declarable Substances:** International Electrotechnical Commission (IEC) 62474 Material Declaration for Products of and for the Electrotechnical Industry – Declarable Substance List
- **PFAS:** Per- and polyfluoroalkyl substances
- **REACH:** European Union REACH Candidate Substances of Very High Concern (SVHCs) List
- **RoHS:** European Union (EU) Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive
- **Toward Zero Exposure (TZE) Priority Chemicals List** from Clean Electronics Production Network



Solar Survey-Manufacturing Module: Revisions to Question F2-Footprint Measurement

Provides the option calculate chemical footprint using one of the following lists of chemicals of high concern:

- a. **EU REACH SVHCs (only)**
- b. **CFP Chemicals of High Concern Reference List** (GreenScreen Benchmark-1 + GreenScreen List Translator-1 chemicals)

Added new option for Solar Sector:

- c. **CFP Solar Chemicals of High Concern Reference List (for manufacturing):**
 - CEPN TZE Priority Chemical List
 - PFAS
 - IEC Declarable Substance List
 - EU RoHS
 - EU REACH SVHCs



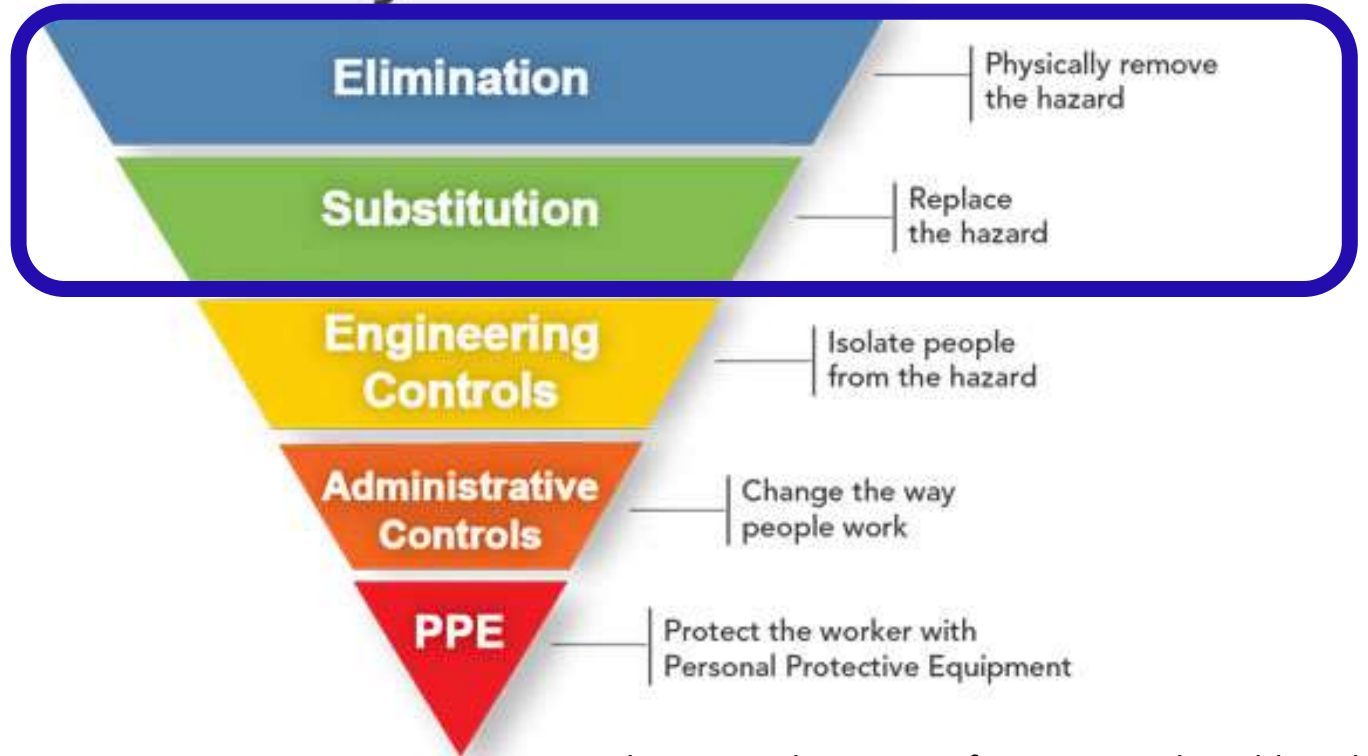
Cleaners & Degreasers in Manufacturing



Most Effective Ways to Protect Workers



Hierarchy of Controls



From the National Institute of Occupational Health and Safety

Chemicals Disclosed under Confidentiality



**CONFIDENTIAL
DISCLOSURE
AGREEMENT**

All **additives** present in the product at any level must be disclosed under confidentiality.

- E.g., surfactant

All **chemicals** present in all additives must be disclosed if:

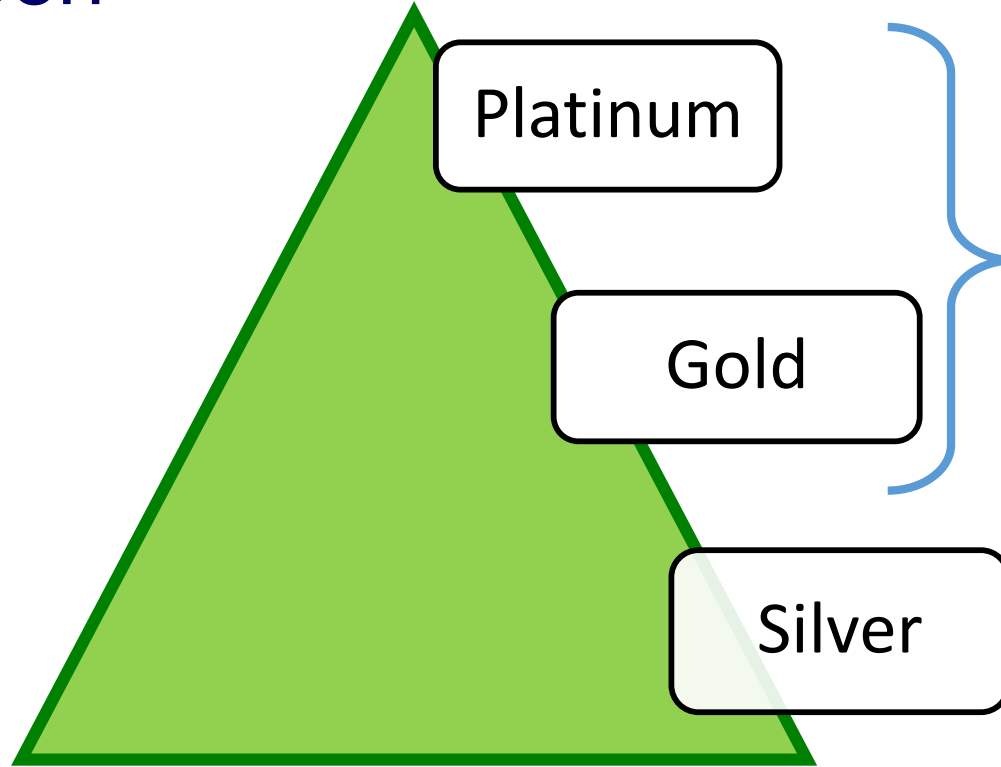
- Intentionally added and present at any level in the product
- Impurity or residual and present at or above 100 ppm in the product

Restricted Substances List



- Chlorinated Organic Compounds
- Brominated Organic Compounds
- Solvents: Benzene, N-Hexane, Toluene, NMP, Methanol
- Per- and Polyfluoroalkyl Substances
- Ozone Depleting Substances
- Alkylphenols & Alkylphenol Ethoxylates
- Cyclic Volatile Methyl Siloxanes: D4, D5, D6

Each chemical evaluated with GreenScreen



List of GreenScreen Certified Products

<https://www.greenscreenchemicals.org/certified/products/category/cleaners-degreasers-in-manufacturing>

GreenScreen Certified™



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GreenScreen Certified™ Products > Cleaners & Degreasers in Manufacturing



**18 Products
Certified at the
Gold level**

Company	Product Type	Product	Level	Version & Certificate#	Expires
Shenzhen Vital New Material Company Limited	Cleaners & Degreasers in Manufacturing Water-based Cleaning Agent	Vital GW9066	Gold	v1.0 #20211165	2027-07-31
Zestron	Cleaners & Degreasers in Manufacturing Water-based Cleaning Agent	Vigon PE 180	Gold	v1.0 #20211169	2027-07-31
Zestron	Cleaners & Degreasers in Manufacturing Water-based Cleaning Agent	Vigon A 201	Gold	v1.0 #20211168	2027-07-31
Zestron	Cleaners & Degreasers in Manufacturing Water-based Cleaner	Hydron SE 230 A	Gold	v1.0 #20211167	2027-07-31
Kushan Aolin Electronic Company Ltd.	Cleaners & Degreasers in Manufacturing Water-based Cleaning Agent	Aolin836	Gold	v1.0 #20211166	2027-07-31



Thank you!

Questions?



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