



GREEN AMERICA  
**CLEAN ELECTRONICS  
PRODUCTION NETWORK**  
A project of the Center for Sustainability Solutions

# Implementing the GFC through Safe and Sustainable Innovation: Global Perspectives and Practice

April 16, 2026

# Clean Electronics Production Network

## How CEPN Works

- Multistakeholder
- Collaborative
- Leaders incubating ideas – forward thinking together
- And committed to partnering to scale!

CEPN is a global, leadership network of diverse stakeholders collaborating to reduce worker exposure to toxic chemicals in the electronics supply chain - a complex issue that no individual business or organization can solve alone.

## CEPN WORKING GOAL

Move toward zero exposure of workers to toxic chemicals in the electronics manufacturing process.

### SCOPE

CHEMICAL FOCUS

Process chemicals



HAZARD & EXPOSURE FOCUS

reducing both hazard and exposure



# CEPN Participating Organizations

Electronics Industry	<p>Amazon Devices Apple, Inc. Cisco Systems, Inc. Dell, Inc. Fairphone</p>	<p>HP, Inc. Intel Corporation Responsible Business Alliance Seagate Technology</p>
Chemical Suppliers	<p>Actnano Inventec Performance Chemicals</p>	
Labor	<p>CEREAL (El Centro de Reflexión y Acción Laboral) Electronics Watch Int'l Campaign for Responsible Technology (ICRT)</p>	
Research	<p>University of California, Berkeley Santa Clara University Toxics Use Reduction Institute (TURI) - University of Mass, Lowell</p>	
Enviro/ Other	<p>ChemFORWARD Clean Production Action (CPA) Enhesa (Scivera) Sustainable Purchasing Leadership Council (SPLC) TCO Development</p>	



- External Advisors**
- NGO Advisors
    - Worker advocates from around the world
    - Providing insight from the worker perspective
  - Technical Review Board
    - Safer chemistry experts
    - Providing recommendations on priority chemicals

# CEPN Network – Major Programs

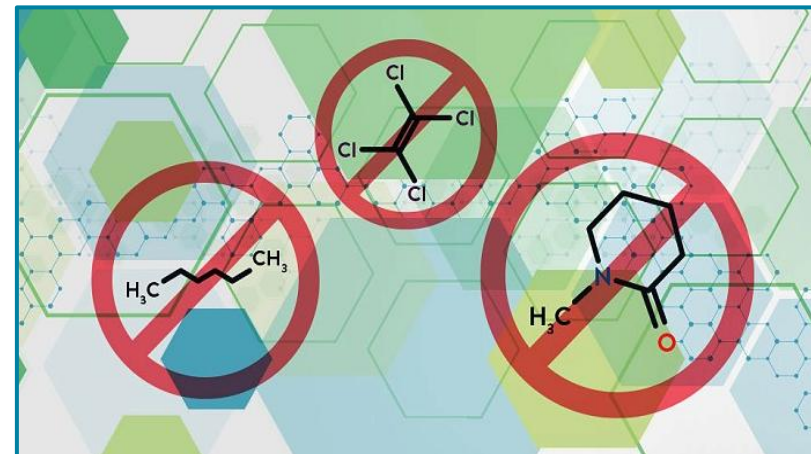
## Chemical Safety Training



**GFC TARGET B5**

By 2030, **educational, training and public awareness programmes on chemical safety, sustainability, safer alternatives and the benefits of reducing chemicals and waste risks** have been developed and implemented, taking into consideration a gender-responsive approach.

## Priority Chemicals



**GFC TARGET D6**

By 2030, sustainable chemical and waste management strategies have been developed and implemented for major economic and industry sectors that **identify priority chemicals of concern** and standards and measures, such as the chemical footprint approach, to reduce their impact and, where feasible, their input along the value chain.

## Toward Zero Exposure



**GFC TARGET D4**

By 2030, relevant stakeholders give priority to **sustainable solutions and safer alternatives to harmful substances** in products and mixtures, including in consumer products, in their research and innovation programmes.

# Chemical Safety Training Program

- Fully launched in February 2026 (2+ months ago)
- A global network of **Qualified Trainers** to provide in person and/or live webinar training in 9 countries/regions and 7 languages
- Three **on-line learning platforms** for interactive digital in 6 languages
- Training materials for workers and manager are free and **downloadable from the CEPN website**

*CEPN's training materials were developed with funding from the Initiative for Global Solidarity, a program of the Deutsche Gesellschaft für internationale Zusammenarbeit (GIZ) GmbH and in partnership with Labor Solutions.*

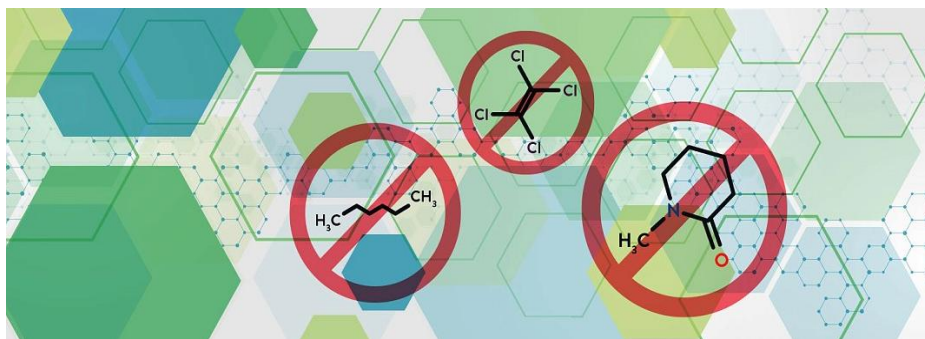
- 3+ CEPN companies are currently deploying the training
- Nearly 2,000 individuals globally have already completed training

# CEPN Priority Chemicals

**Priority Chemicals** – Process chemicals to be **prioritized for elimination or substitution** in electronics manufacturing and serve as an MRSL

- Used within the selected focus area(s), if any
- Meets CEPN High Hazard Criteria
- Some indication of current use as a process chemical, or evidence of historical use, within the electronics industry
- Some indication of potentially viable safer alternatives available

- Published 2 Priority Chemical Rounds; will be publishing the 3<sup>rd</sup> in May
- Total of 35 process chemicals (solvents)
- Takes over 1-1/2 years from start to publication of each Round → a thorough, comprehensive and collaborative process
- CEPN's Priority Chemicals have been adopted by electronics companies and other organizations



# Toward Zero Exposure Program

Signatories pledge to take the following actions:



## Eliminate Exposures to Priority Chemicals

Protect workers from exposure to Priority Chemicals in the electronics supply chain, prioritizing elimination or substitution with safer alternatives and protecting workers until that is achieved



## Verify and Report

Ensure progress through verification and annual public reporting.

*“By collaborating with CEPN and participating in the Toward Zero Exposure program, Dell can scale support for industry-wide efforts to ensure the safe use of process chemicals.”*

*– Macani Toungara, Director, Social and Environmental Responsibility, Dell Technologies, 2nd Annual Report 2022/23*

*“As a part of CEPN’s Toward Zero Exposure program, we have the opportunity to leverage best practices and take collective action to protect workers in our global supply chain from exposure to hazardous process chemicals.”*

*– HP Inc., First Annual Report 2021/22*

2nd Round Signatory

fairphone

1st Round Signatories



## Signatory and program influence extends to facilities in at least 29 countries around the world...



## Toward Zero Exposure Program After 4 Years -- By the Numbers

Over **800** facilities in the Signatories' manufacturing supply chains are estimated to have already substituted the 1st Round of Priority Chemicals.

Well over **100,000** employees work in production in those facilities.

More than **200** distinct supplier companies have been influenced to improve worker chemical safety by TZE Signatories.

**Fairphone** has become the first Signatory to eliminate the 2nd Round of Priority chemicals at in-scope facilities.