Safer Made is a new venture fund investing in companies and technologies that create safer alternatives for people and the natural world. The companies we invest in remove or reduce the use of harmful chemicals in products and manufacturing processes. The results are healthy people, clean waters, and nourishing soils.

We harness our network of brand manufacturers that lead their sectors in safer chemistry to invest in the solutions that address their challenges.

People’s concern about their families’ chemical exposure translates into a multi-billion dollar demand for safer products.
THE MEANING OF ORGANIC FOOD

- Absence of Herbicides: 69%
- Absence of Pesticides: 69%
- Absence of Growth Hormones: 68%
- No Artificial Flavors / Colors: 66%
- Absence of Antibiotics: 63%
- Absence of Genetically: 63%

Source: Beyond Natural and Organic 2010. The Hartman Group
POLLUTED BY SINGLE-USE PLASTIC
PACKAGING FUNCTIONS

Barrier Functions:
- Physical Barrier
- UV/Light Barrier
- Gas Barrier (O₂, CO₂, C₂H₄, Etc.)
- Water Barrier
- Oil Barrier

End of life functions:
- Recyclability
- Compostability
- Reusability

Brand

Communication Function

Tracking Function
MATERIAL CHOICE DRIVES ENVIRONMENTAL IMPACT, COATINGS DRIVE HEALTH IMPACTS
OVER 300 CHEMICALS OF CONCERN IN FOOD PACKAGING

**Metal**
- Aluminum
- Manganese
- Sodium chromate
- Potassium dichromate
- Bisphenol B
- Bisphenol A
- Bisphenol S
- Diphenolic acid
- Bisphenol F
- 6:2 Fluorotelomer alcohol
- 8:2 Fluorotelomer alcohol
- 2-Chlorobuta-1,3-diene

**Paper**
- Perfluorooctanoic acid, ammonium salt
- 2,3-Epoxypropyl-trimethylammonium chloride
- Pentachlorophenol
- 2,3,4,5-Tetrachlorophenol
- Anthraquinone
- Boric acid
- 4-Nonylphenol
- Ethyleneimine
- Methylolxirane
- Perfluorobutane sulfonic acid (PFBS)
- Perfluoropentane sulfonic acid (PFPeS)
- Perfluorohexane sulfonic acid (PFHxS)
- Perfluorooctane sulfonic acid (PFOS) (3)
- Perfluorobutanoic acid (PFBA)
- Perfluoropentanoic acid (PFPeA)
- Perfluorohexanoic acid (PFHxA)
- Perfluoroheptanoic acid (PFHpA)
- Perfluorooctanoic acid (PFOA) (5)
- Perfluorononanoic acid (PFNA)

**Plastic**
- Vinyl chloride
- Sodium perchlorate
- Tributyltin oxide (TBTO)
- Tributyltin acetate
- Dibutyltin (dilaurate)
- Dibutyltin dichloride
- Antimony trioxide
- Silver (nanoparticles)
- 4-Methyl-m-phenylenediamine
- Diphenyl-p-phenylenediamine
- Acrylamide
- Styrene
- 4,4’-Methylenebis[2-chloroaniline] (MDA)
- Buta-1,3-diene
- Vinyl acetate
- Melamine
- Bisphenol A diglycidyl ether
- Chloroethylene
- Isoprene
- Chlorinated paraffins (CPs)
- 1,2-Dichloroethane
- Dichloromethane
- Styrene oxide
- 2,3-Epoxypropyl phenyl ether
- 4-tert-Butylpyrochatechol
- 4-tert-Butylphenol
- p-Cresol
- Triphenyl Phosphate

**The Industry Lacks Common Restricted Substance Lists**

- Tris(2-Chloroethyl)-phosphate (TCEP)
- Dicyclohexyl phthalate
- Diphenyl phthalate
- Diethyl phthalate (DEP)
- Diisobutyl phthalate
- Dibutyl phthalate (DBP)
- Dihexyl phthalate
- Benzyl butyl phthalate
- Bis(2-ethylhexyl) phthalate
- Diocyl phthalate
- Diisodecyl phthalate
- Diisononyl phthalate
- Diisononyl phthalate
- 2-Octyl-(4-dimethyl-amino)benzoic acid
- Di(2-ethylhexyl)adipate
- 4,4’-Methylenebis[2-chloroaniline]
- Phenyl salicylate
- Benzophenone
- Benzophenone-3;
- Oxybenzone
- 4,4’-Dihydroxy-benzophenone
- 1,3-Dihydroxybenzene
- 2,3-epoxypropyl methacrylate
- UV-327
Functional Demands

- Less polluting materials
- Function without toxics
- End of life functions

Alternatives and Solutions

- Alternative basic materials
- Safer functional additives
- New processes, technologies, and design

INNOVATION NEED FOR SAFE FOOD PACKAGING

SAFERMADE
INNOVATION OPPORTUNITIES IN FOOD PACKAGING

ALTERNATIVES TO PETROLEUM BASED PLASTICS
- Fiber
- Bio-based Plastics

IMPROVED END-OF-LIFE FUNCTIONS
- Degradable Plastics
- Recycling Technologies
- Reusable Packaging

SAFER FUNCTIONAL ADDITIVE
- Barriers and Coatings
- Shelf Life Extension
- Safer Inks and Smarter Packaging
<table>
<thead>
<tr>
<th>Company Name</th>
<th>What they Sell</th>
<th>Polymer</th>
<th>End of Life Options</th>
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<tbody>
<tr>
<td>HyO-Cups</td>
<td>Cups</td>
<td>-</td>
<td>Biodegradable</td>
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<tr>
<td>Incredible Foods</td>
<td>Edible food packing</td>
<td>Agar</td>
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<td>Paptic</td>
<td>Bags</td>
<td>Cellulose</td>
<td>Composting or recycling with paper</td>
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<tr>
<td>Smart Solve</td>
<td>Bags/Films</td>
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<td>Futamura</td>
<td>Film Supplier</td>
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<td>Tidal Vision</td>
<td>Coatings</td>
<td>Chitosan</td>
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<td>Resin Supplier</td>
<td>PET</td>
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<td>Braskem</td>
<td>Resin and Chemical Supplier</td>
<td>PET, PE</td>
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<td>Insulating Materials</td>
<td>PLA</td>
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<td>Food Service</td>
<td>Starch</td>
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<td>BiologiQ</td>
<td>Resin Supplier films and Bags</td>
<td>Starch</td>
<td>Depends on the other polymers</td>
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<td>Insulating Materials</td>
<td>Starch</td>
<td>Compostable</td>
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BIOBASED POLYMERS AND ADDITIVES IN APPAREL

NEW MATERIALS
- Synthetic Fibers
- Cellulosic Fibers
- Leather Alternatives

NEW SAFER CHEMISTRIES
- Safer Finishing Chemistries
- Bio Based Dyes

WATERLESS PROCESSING
- Waterless Dyeing Processes
- Waterless Finishing Processes

FIBER RECYCLING
- Cotton
- Polyester
- Blends
- Nylon

SUPPLY CHAIN INFORMATION MANAGEMENT SYSTEMS
- Chemicals Management Information Systems
- Traceability Systems

https://www.safermade.net/textile-report