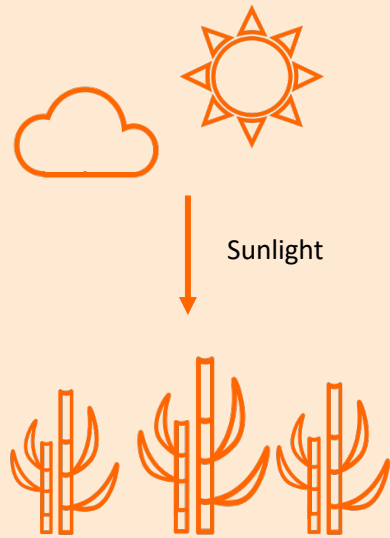


CONFIDENTIAL

Biotechnology Creating Performance Materials & Ingredients



A Better Source of Oil

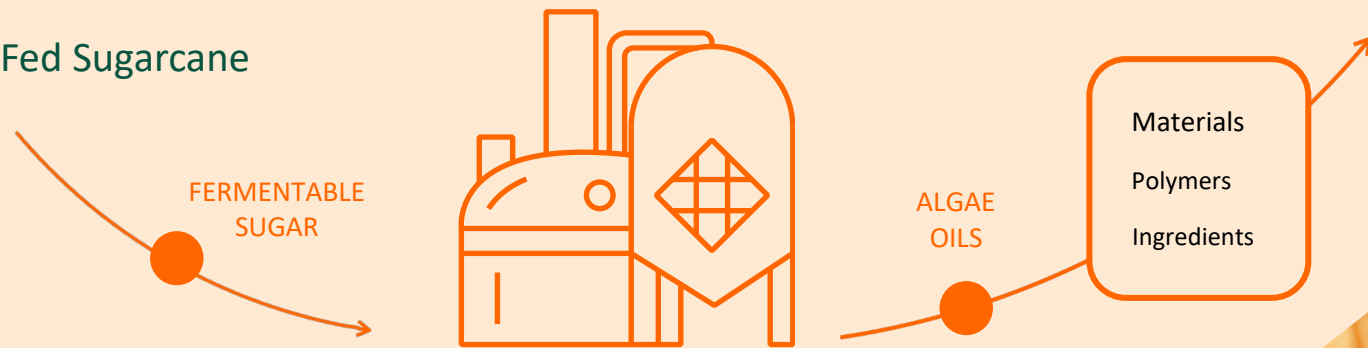


Our sugar-to-oil platform can make many types of oil in a matter of days, supporting more resilient supply chains and domestic manufacturing of biobased materials and ingredients.

- Textile Finishes
- Outdoor Rec.
- Automotive
- Aerospace
- Home/Office
- Food
- Personal Care

Consumer Product Applications

Local, Rain-Fed Sugarcane



Microbial Fermentation (Algae)

WHY ALGAE OIL?

- On demand production using fermentation
- Faster process – oil in days
- 100% traceable
- Less reliance on water, land and fertilizer use
- No geographic constraints
- Lower environmental footprint



EXTRACTING/REFINING PETROLEUM

VS

PRODUCT

 RENEWABLE



CARBON SOURCE

FINITE 

100%



BIOBASED CONTENT
(ASTM D6866)

0%

BENIGN



TOXICITY
(RESTRICTED SUBSTANCE
LISTS)

TOXIC



BIODEGRADABLE

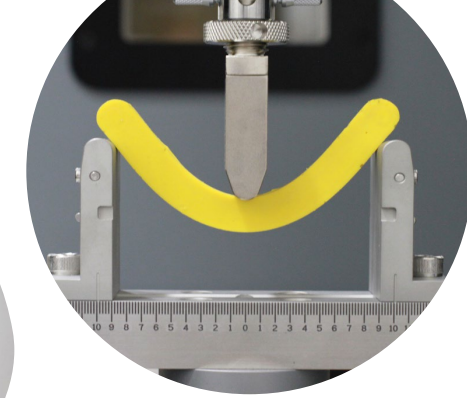


ENVIRONMENTAL
PERSISTENCE

PERSISTENT
ENVIRONMENTAL
POLLUTANTS



Powered by Checkerspot's
**BIOLOGY AND
DESIGN LABS**



Alameda, CA + Salt Lake City, UT



37k ft²



50+ designers, engineers, and scientists



Thousands of tons of material production capacity per year



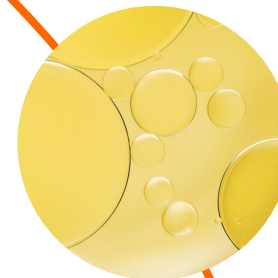


From Lab to Consumer

Checkerspot's integrated innovation platform delivers high performance biomaterials.

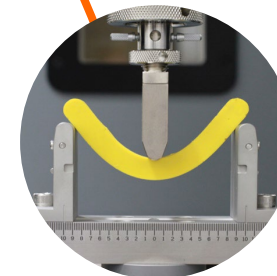


MOLECULAR
FOUNDRY



1

MATERIALS SCIENCE &
POLYMER CHEMISTRY



2

FABRICATION &
FORMULATION



3

CONSUMER
ENGAGEMENT



4

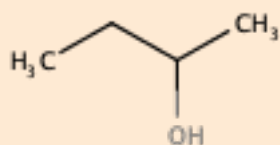
CUSTOMIZATION LEVRS AVAILABLE THROUGH THE MOLECULAR FOUNDRY

Available through both classical strain improvement and genetic engineering routes

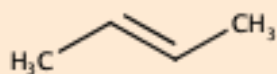
CHAIN LENGTH



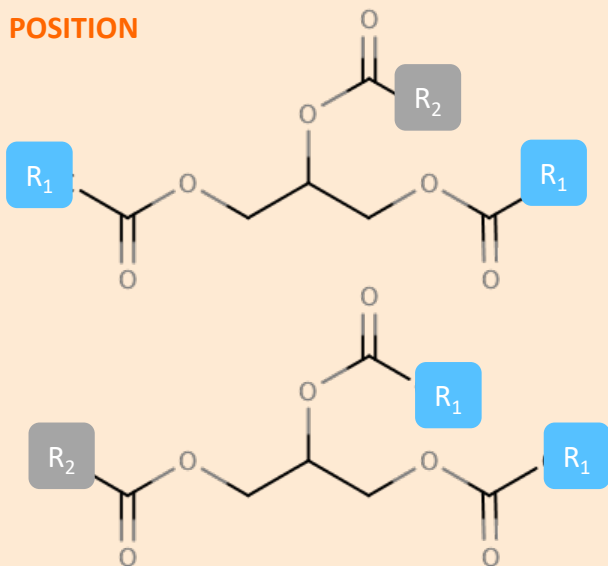
FUNCTIONAL GROUPS



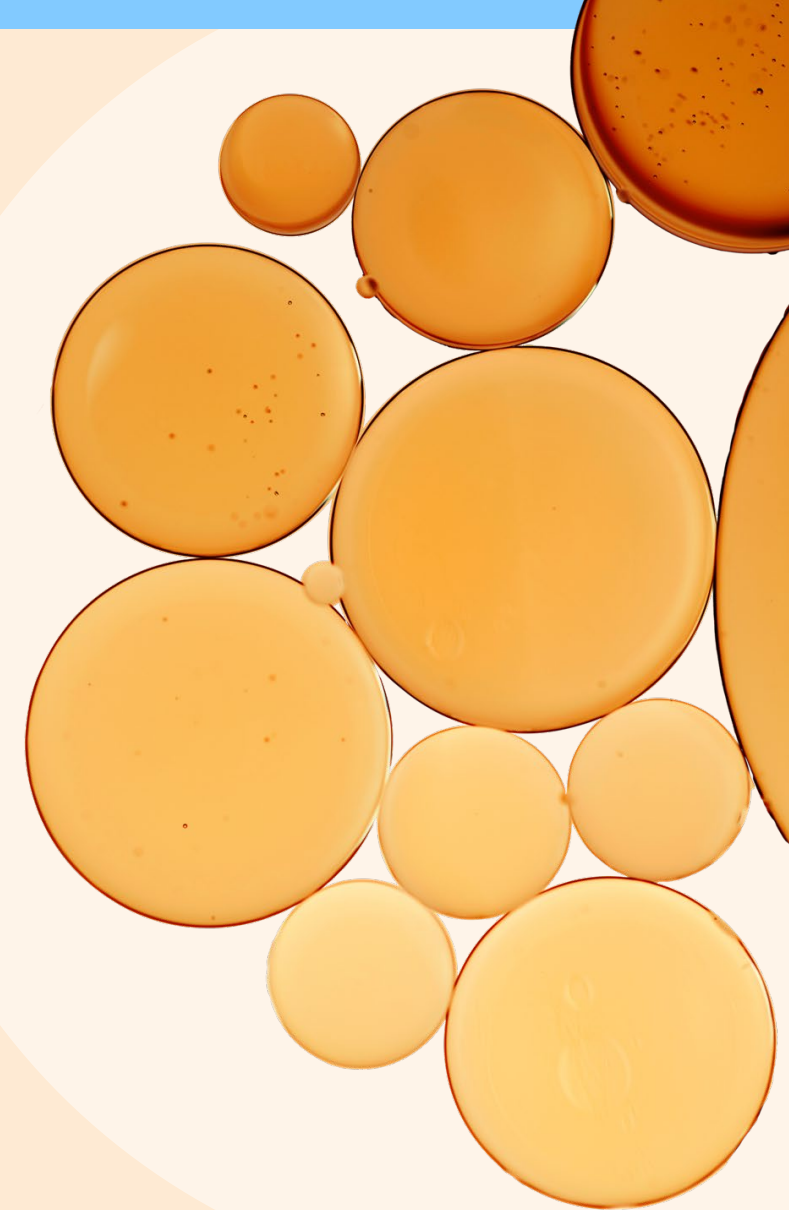
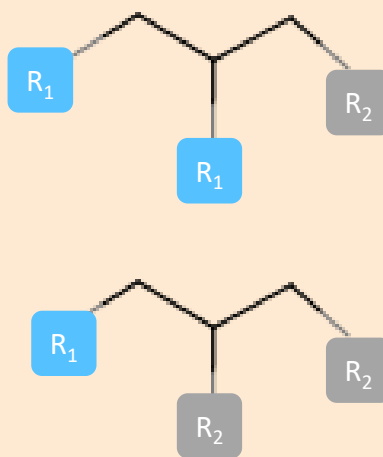
UNSATURATION



POSITION



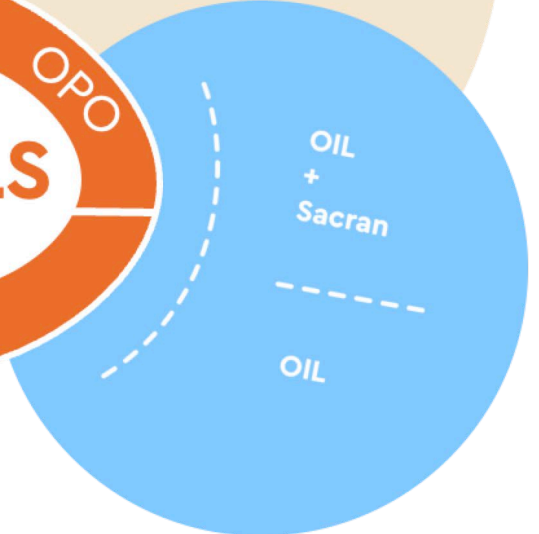
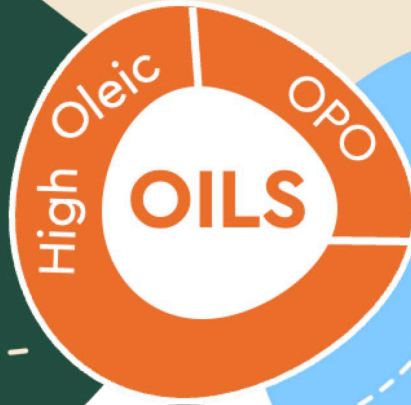
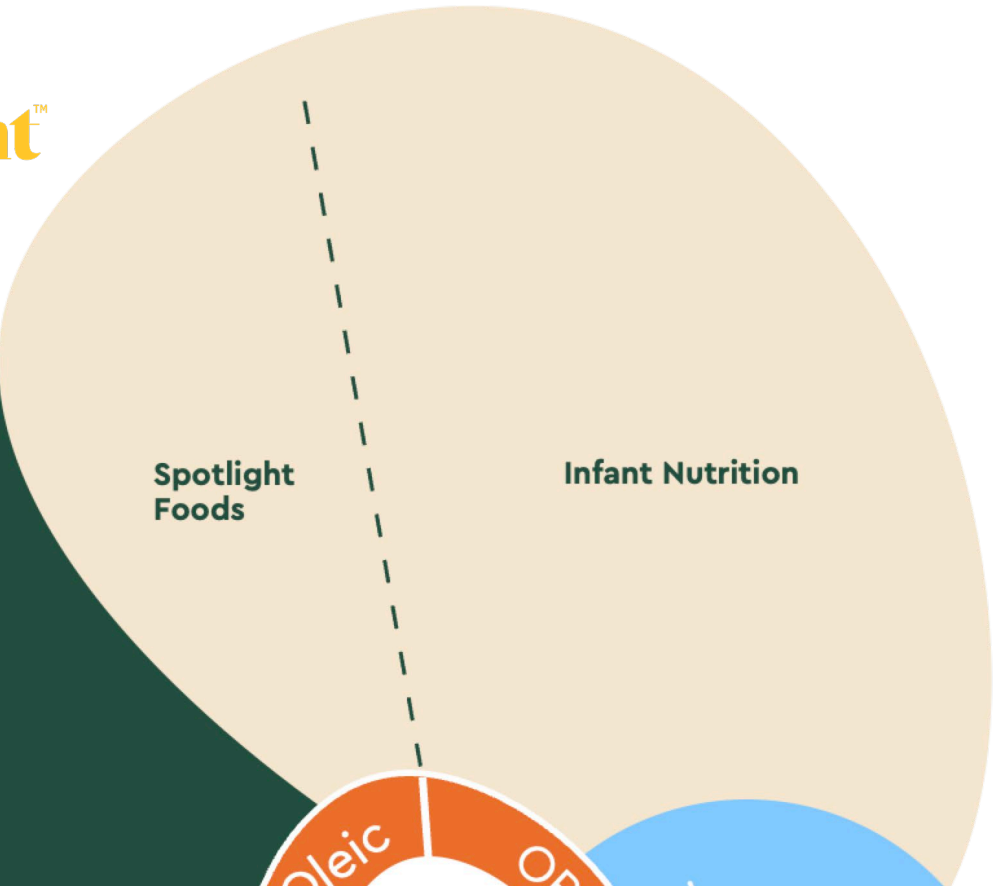
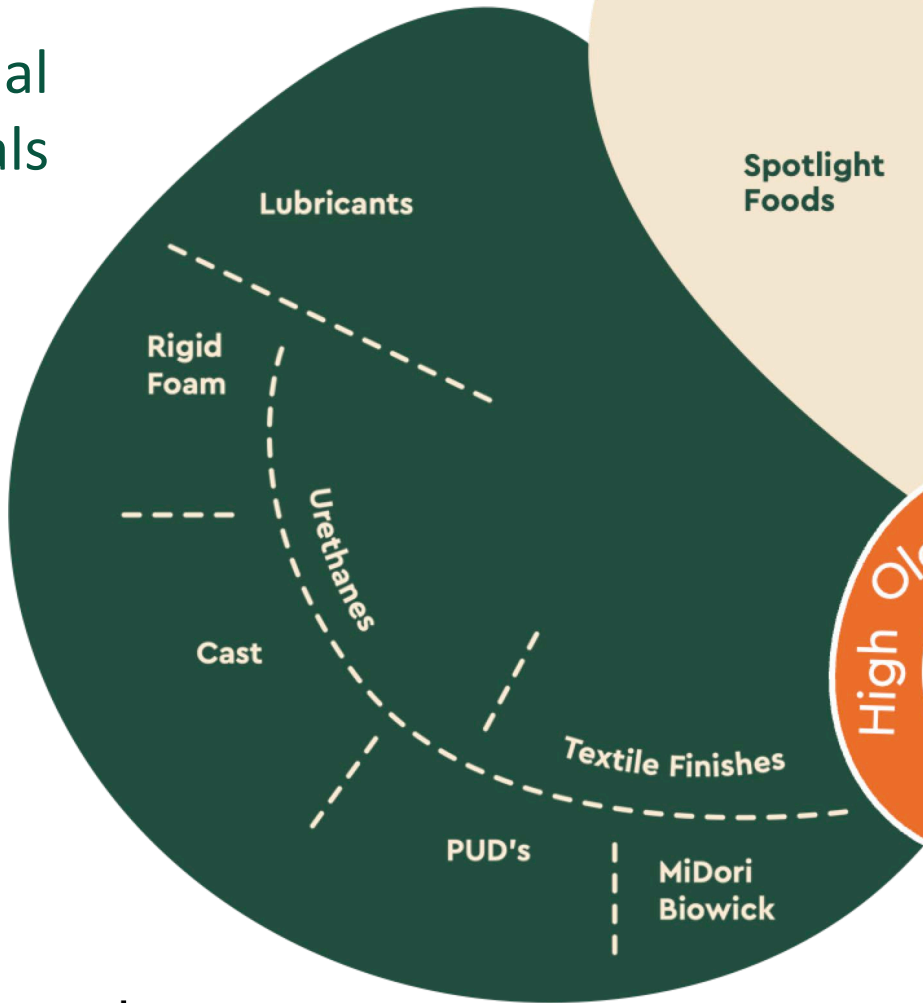
OCCUPANCY



spotlight™

Industrial
Materials

Food &
Nutrition



Personal
Care

WTHR™

MATERIALS SCIENCE & POLYMER CHEMISTRY

We have five materials in market, with a pipeline in development

IN MARKET



Oil
High oleic microalgae oil



Rigid PU Foam Systems
Up to 42% biobased



Cast PU Systems
Up to 71% biobased thermoset PUs



MiDori[®] bioWick WA
100% biobased textile wicking finish
Commercialized by Beyond Surface Technologies



SpiralMade[®]
Recycled composite from production waste

PIPELINE



Flexible Urethane Foam
Inviting partner opportunities



Tooling Board Foam
With existing partner



PFAS-Free DWR
Developing Durable Water Repellent
replacement for PFAS



A Better Source of Oil For A Brighter Future

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hello@checkerspot.com

materials@checkerspot.com

