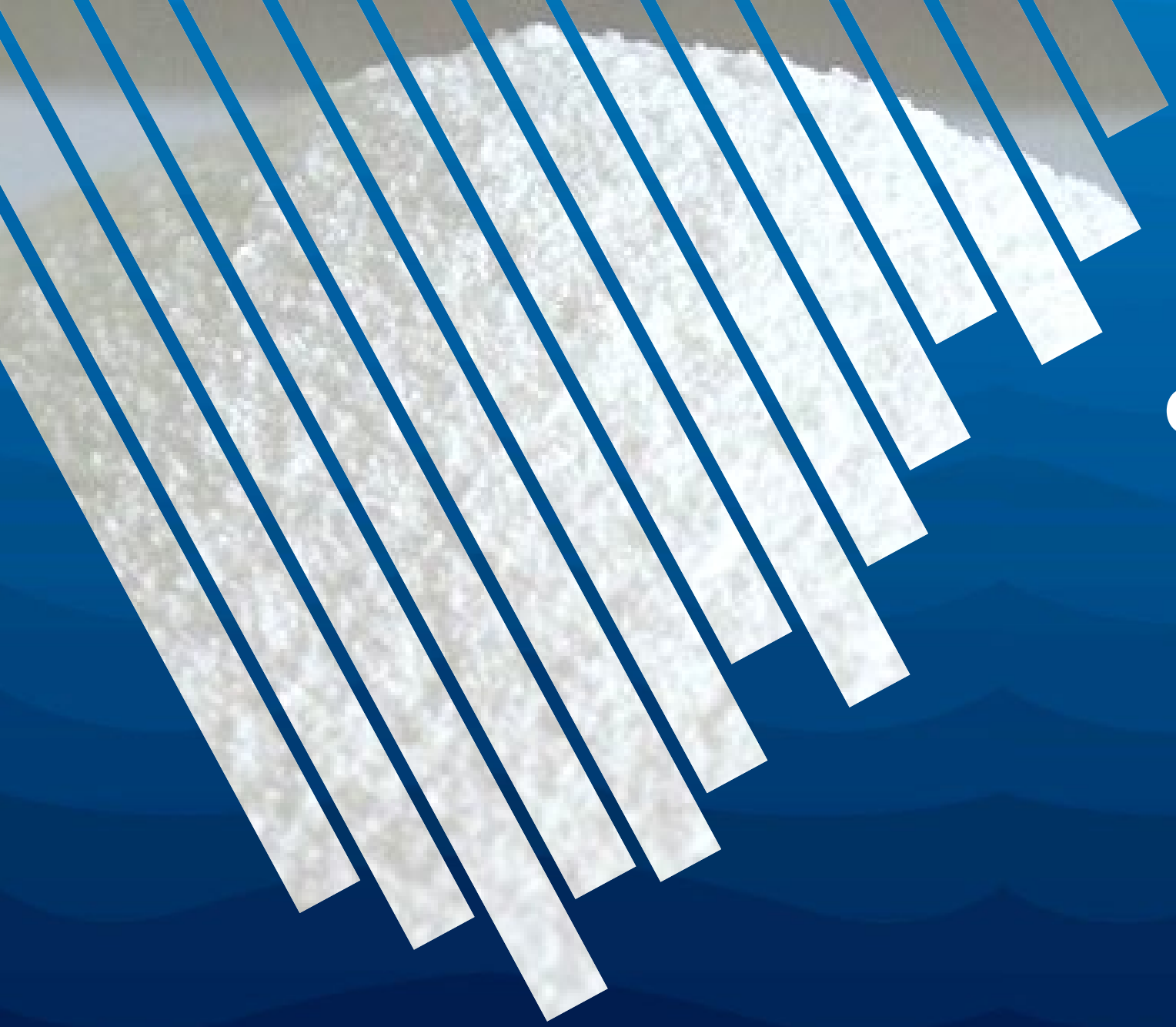


SUPER DRY
SUPERIOR DESICCANT

FDRA
FOOTWEAR DISTRIBUTORS AND RETAILERS OF AMERICA

Green or Greenwashed?

In relation to desiccant types

- **Environment**
- **Packaging**
- ***Performance***

Objective vs. Subjective Definitions

ORGANIC
(in descending order of objectivity)

- Containing Carbon
- Related to or derived from living matter
- Produced without added chemical fertilizers, pesticides, antibiotics, hormones
- Healthy, Safe, "Natural" ("Organic does NOT mean it is safe, nutritious or healthy")

Natural

- "Existing in or caused by nature, not made or caused by humankind"

Examples of Natural Things

- Kittens
- Rattlesnakes
- Asbestos
- Cyanide
- Puppies
- Deadly Nightshade

Environmental Impact

SILICA GEL

- ✖ Synthetic material manufactured under high energy input.
- ✖ High wastewater output.
- ✖ Recyclable but economically not feasible.

CALCIUM CHLORIDE & STARCH

- ✔ Salt which is used as a food additive in food processing. ‘GRAS’ status by FDA.
- ✔ By- product from the Solvay process.
- ✔ Use of CaCl2 reduces waste storage needs.
- ✖ Recyclable but economically not feasible.

BENTONITE / DRY CLAY

- ✔ Natural clay product mined from calcium rich montmorillonite deposits.
- ✖ Open pit mining contributes to degradation of habitats and groundwater flows.
- ✖ Habitat rehabilitation not standard in many countries.
- ✖ Recyclable but economically not feasible.

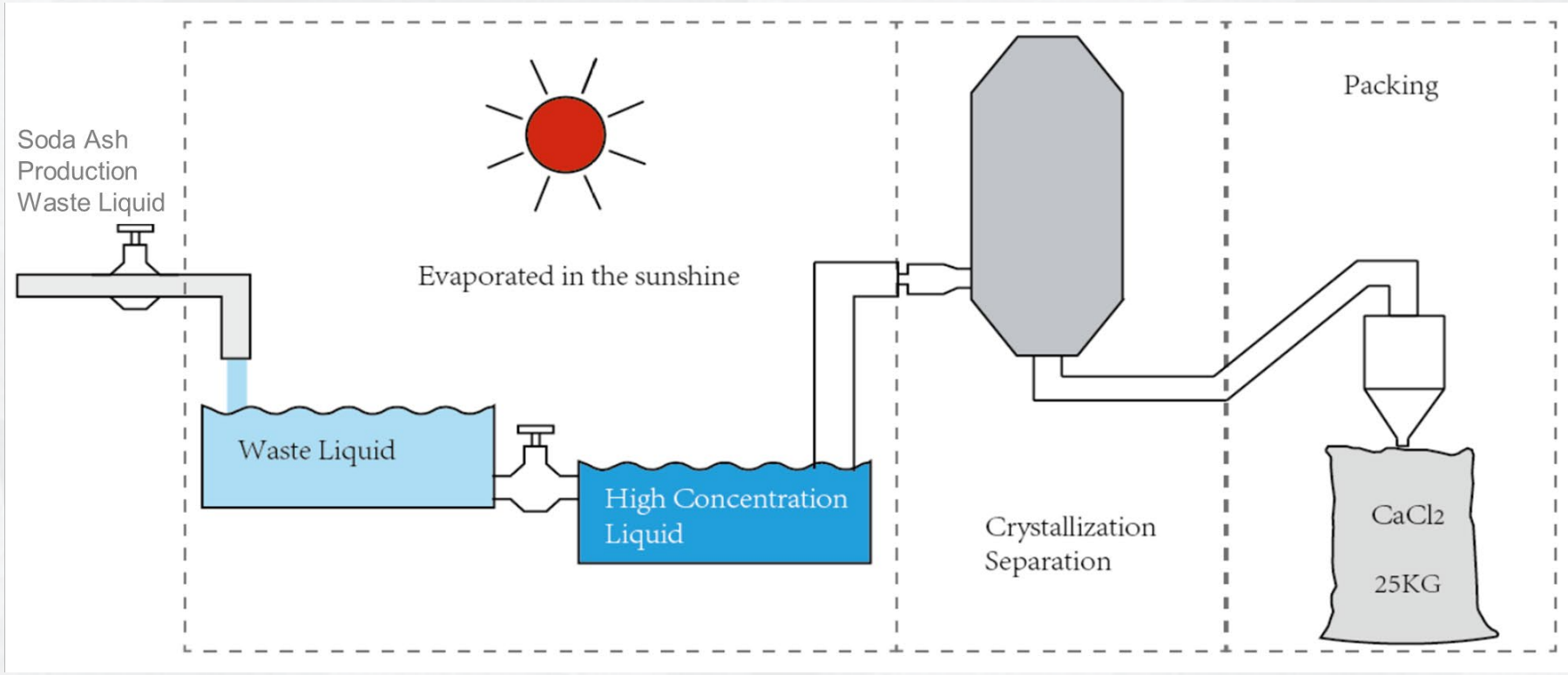
Sustainable

Calcium Chloride:

Is **recycled** from
the production of

Soda Ash

* Soda Ash is an essential raw material used in the manufacture of glass, detergents and soaps, chemicals and other industrial products.



Packaging

CALCIUM CHLORIDE & STARCH
(Plastic)

- ✔ High mechanical resistance. (Will not tear easily)
- ✔ Excellent water barrier.
- ✖ Not biodegradable.
- ✖ Recyclable but economically not feasible.

BENTONITE / DRY CLAY
(Kraft Paper)

- ✖ Low mechanical resistance (Can tear easily)
- ✖ Hygroscopic & poor water barrier.
- ✖ Biodegradable, but release of greenhouse gases CO2 and Methane during biodegradation.
- ✖ Recyclable but economically not feasible.
- ✖ 20% of package weight is made of thermoplastic copolymers (glue) => not plastic but similar

Performance

Types of Desiccant – Performance Comparisons

Here are the FACTS on Performance:

CALCIUM CHLORIDE & STARCH

- ***High absorption capacity:*** **Absorbs up to 400% of original weight.**
- **90% less desiccant needed compared to Silica Gel and Dry Clay.**
- **ABSORBS and CAPTURES moisture with no risk of moisture release back into the surrounding environment.**
- **Slower acting diffusion absorbent with high absorption and retention capacity.**
- **Slower activating desiccant: Continues to absorb for 3 months.**
- **Wide temperature application range between -5°C to +90°C.**
- **Keeps relative humidity steady when temperatures drop sharply.**
- **Suitable for all applications as in-box desiccant for ocean shipments and long-term storage.**

BENTONITE DRY CLAY/ SILICA GEL

- Low **ad**sorption capacity: Ad-sorbs Max 35% of its original weight.
- 10 times more product is required to protect the same area compared to Calcium Chloride desiccant.
- Ad-sorbs and releases moisture back into the air when it reaches max adsorption (30%) with a high risk of moisture release > 35°C.
- Surface adsorbent with low adsorption and low retention capacity.
- Fast activating desiccant: Reaches saturation within 3 days
- Narrow temperature application range between 15°C and 30°C.
- Relative humidity increases to dangerous levels when temperatures drop sharply.
- **Not suitable** for application as in-box desiccant **for ocean shipments and long – term storage.**

SUPER DRY Desiccant versus Clay Desiccant

Test environment: 30℃, 90%RH

Days	Super Dry DS 25g			Clay 32g		
	Weight (g)	Water retention(g)	Absorption Rate	Weight (g)	Water retention (g)	Absorption Rate
0	30	-	-	33.7	-	-
3	57.8	27.8	111.1%	44.5	10.8	33.8%
5	71.2	41.2	164.7%	45.2	11.5	35.9%
8	81.0	51.0	204.0%	45.3	11.6	36.6%
15	93.1	63.1	252.5%	45.1	11.4	35.6%
25	105.6	75.6	302.4%	45.0	12.3	38.4%

Super Dry typical effectiveness 60-120 days depending on conditions

Why is the desiccant ingredient important?

- SD absorbs nearly 3 time the amount of water vapor ending day 3, 6 times overall.
- Clay absorbs little after day 3.
- Clay outgasses water vapor into the cargo environment (day 15)

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