

## June 19, 2023 Management Briefing

#### Kuraray Co., Ltd.

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#### Today's Agenda

#### 1. Introduction

#### 2. MonoSol Division and its Strategy

#### Hitoshi Kawahara President and Representative Director

#### Hiroaya Hayase

Representative Director and Senior Managing Executive Officer Vinyl Acetate Resin Company Executive Supervisor Vinyl Acetate Film Company Executive Supervisor

#### **Christian Herrmanns**

Executive Officer, General Manager of MonoSol Division, MonoSol, LLC. President

#### Introduction : Vinyl Acetate Segment

## We manufacture and sell materials from resin to film, starting with vinyl acetate monomer as raw materials

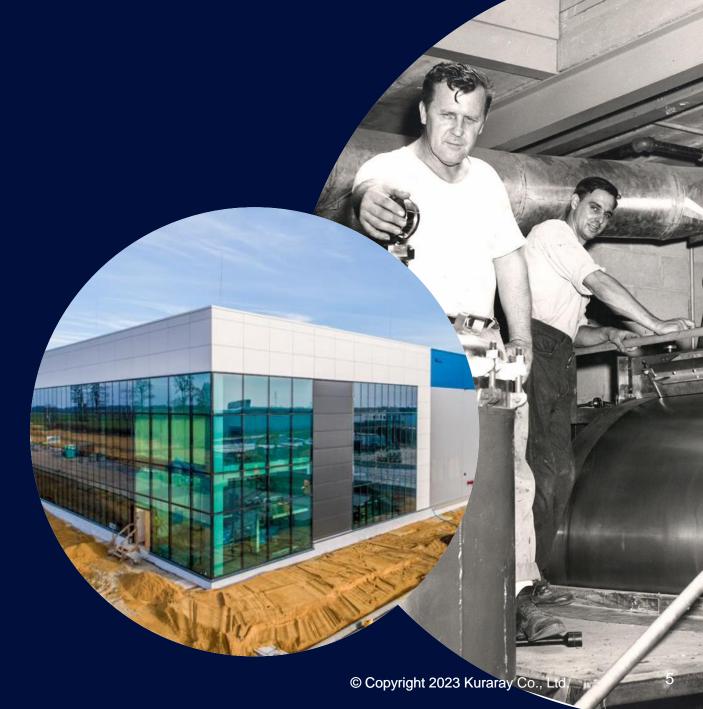
Vinyl Acetate Segment				
Vinyl Acetate Resin Company		Vinyl Acetate Film Company		
Poval Resin Division	Eval Division	Poval Film Division	MonoSol Division	Advance Interlayer Solutions Division
KURARAY POVAL <sup>™</sup> , ELVANOL™ PVOH resin	EVAL <sup>™</sup> EVOH resin and film PLANTIC <sup>™</sup> Biomass-derived gas barrier material	Optical-use poval film	Water-soluble PVOH film	Trosifol <sup>™</sup> , Butacite <sup>™</sup> PVB film SentryGlas <sup>™</sup> Ionoplast interlayer
	CROUTON COMPANY			

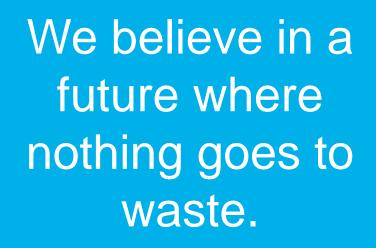
# MonoSol Division and its Strategy -Growth Potential-

# Introduction

MonoSol business within the Kuraray Group

Founded in 1953 in Indiana, USA
Acquired by Kuraray 2012
Part of Vinyl Acetate Film Company
750+ employees
7 plants





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MonoSol's mission is to innovate materials that make everyday life simpler, safer and more sustainable.



# Experts in water-soluble biodegradable polymer science



Access To Kuraray Polymer Synthesis Innovation



Global Market and Regulatory Expertise



Global Technical & Production Support Network





Pioneers of soluble-unitdose detergent technology (no. 1 global market share)



#### **Other Water-Soluble Film Applications**





Hospital Laundry Bags

Agrochemicals



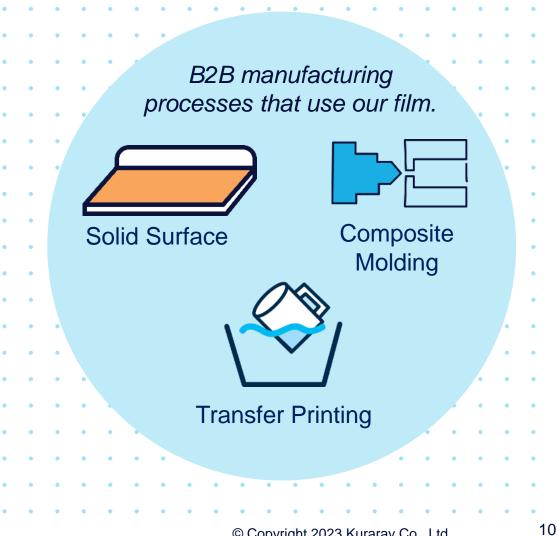
Personal Care & Cosmetics



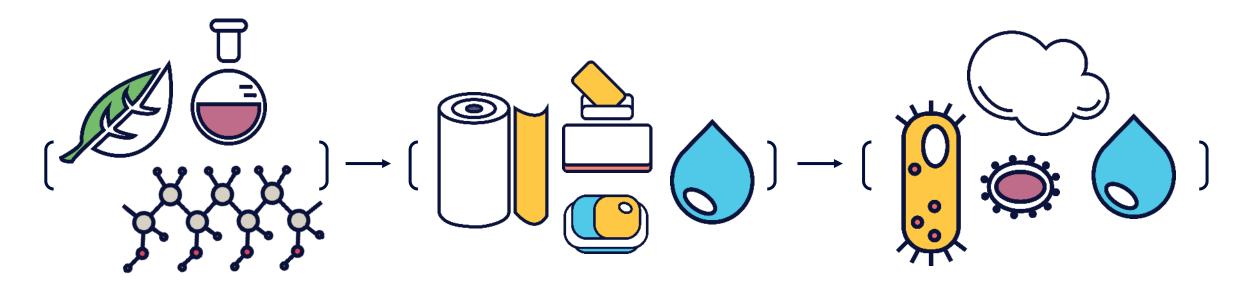




Water Treatment Industrial / Institutional Embroidery



#### Enhancing Quality of Life and the Environment



#### Beginning of life

We are increasing the percentage of bio-based materials and renewable energy to reduce our carbon footprint

#### In use

Our materials work with consumers' behavior to create a simpler, safer and more sustainable product.

- ✓ Reduced waste
- ✓ Safe handling of chemistry
- ✓ Reduced energy consumption
- ✓ Reduced CO2 emissions

#### End of life

Our products have an excellent end-of-life story as they biodegrade rapidly

#### Sustainability Endorsements

**Ecovadis Silver Rating:** Scored in 92<sup>nd</sup> percentile of all companies evaluated

**Ecolabel Compliant:** Market-specific products designed for sustainability endorsement by regulatory authorities around the world

**Environmental NGOs:** MonoSol films featured as solution to plastic packaging waste problems by Ellen MacArthur Foundation and WWF Australia









### Upstream Innovation

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A guide to packaging solutions

#### Our Competitive Advantage

#### **Business Model:**

- Being an integral part of Kuraray allows us to innovate resin and film to meet customer end-product performance criteria
- Deep integration and collaboration with the world's largest CPG (Consumer Packaged Goods) companies to drive product innovation and category growth
- Long-term, exclusive or semi-exclusive supply agreements

#### Technical Superiority

Drive undisputed technical superiority in water soluble film development and production

> Strategic Focus

#### Operational Excellence

Deliver quality, safety and process improvements to drive productivity, investment and margin enhancement

#### Agile Innovation

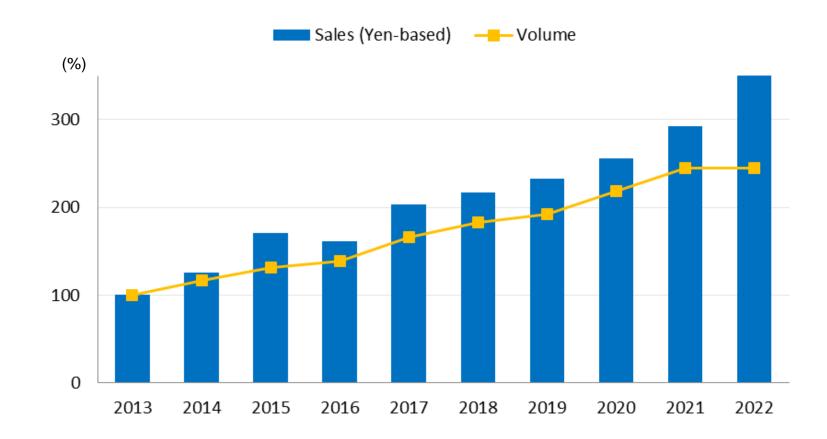
Act with the speed and agility of a startup to create business of the future

> Organization & Culture

Create a mission-driven culture, committed to excellence with safety as the cornerstone of everything we do

#### MonoSol Division's Sales and Volumes Trends

(2013 as 100%)



Current socio-economic conditions putting pressure on consumer markets, especially in Europe while the US continues modest growth

- Russian market loss
- China lockdowns
- Inventory overstock for business continuity during COVID

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# We have never been in a better position with our top three global customers



Premium SUD format continues to grow in US/ European markets with, approximately 30% of market today, heading to 50% share



Our largest, global customers are investing in the SUD format with marketing, R&D and new production facilities



We must remain at the forefront of innovation and sustainability

Strategic Partner Status

Strategic supplier to top 3 consumer home care product companies, representing over 90% of global laundry SUD retail market.

#### We are well-positioned in fast-growing regional markets

- Asia Pacific market growth accelerating, beginning in Japan and has started to spread in the region.
- Current SUD market share is low compared to US/Europe and expected to grow significantly.

#### MonoSol's Growing Global Reach



- Hartlebury, UK
- Frankfurt, Germany
- Zimna Wódka, Poland

#### USA

- Merrillville (Headquarters)
- LaPorte
- Portage
- Duneland
- Indy



#### **Future Capacity Expansion Plan**

New facility in Poland completed on time and ready to start production.

The facility will regionalize the supply chain: Resin > Film > Conversion > Customer

#### **Benefits**

- Logistical business continuity
- Shorter trade routes improve quality, reduce cost and lower carbon emissions
- In the near-term, capacity increase allows maintenance and upgrades of U.S.-based lines
- In the long-term, capacity increase required to meet projected future demand



The new production facility in Poland is complete.



# Thank you!

- All figures are rounded to the nearest hundred million yen.
- This presentation contains various forward-looking statements which are based on the current expectations and assumptions of future events. All figures and statements with respect to the future performance, projections, and business plans of Kuraray and its group companies constitute forward-looking statements. Although Kuraray believes that its expectations and assumptions are reasonable, actual results and trends of Kuraray's performance could differ materially from those expressed or implied by such figures or statements due to risks and uncertainties in the future business circumstances. The factors which may cause such difference include, without limitation: (1) general market and economic conditions in Asia including Japan, the U.S., Europe and other regions; (2) fluctuations of currency exchange rates, especially between the Japanese yen and the U.S. dollar and other foreign currencies; (3) changes in raw material and fuel costs; (4) industrial competition and price fluctuations in Japan and international markets; (5) advance or delay in the construction of new plants and production lines; (6) successful development of new products and technologies; and (7) changes in laws and regulations (including tax and environmental) and legal proceedings.