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KeyBanc Analyst Day August 14, 2009

Formula for growth.

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Agenda

- Ashland Overview and Strategy
- Ashland Hercules Water Technologies
- Ashland Aqualon Functional Ingredients

List of Abbreviations Used in This Presentation



Ashland Vision for the Future

To be a leading, global specialty chemicals company that is a market leader in all major businesses

Built on three growth platforms

- Ashland Aqualon Functional Ingredients
- Ashland Hercules Water Technologies
- Ashland Performance Materials

Investing in two primary chemistries

- Water-soluble polymers
- Thermoset resins

- Sharing three common capabilities
 - Application expertise
 - Formulation expertise
 - Polymerization expertise
- Focused on five key markets
 - Paper and packaging
 - Personal care
 - Pharmaceutical
 - Construction
 - Transportation



Strong Leadership Positions in the Markets We Serve

Ashland

Ashland Aqualon Functional Ingredients

#2 global producer of cellulose ethers Ashland Hercules Water Technologies

> #1 global producer of papermaking chemicals

Ashland Performance Materials

#1 global leader in unsaturated polyester resins and vinyl ester resins Ashland Consumer Markets (Valvoline)

#3 passengercar motor oil and #2 quick-lube chain in the United States Ashland Distribution

#2 plastics and #3 chemicals distributor in North America



Corporate Profile

Pro Forma Ongoing EBITDA¹ by Commercial Unit



NYSE Ticker Symbol:	ASH
Employees:	~15,000
Number of countries in which Ashland has sales:	More than 100
Active patents in U.S.:	~650
Active patents worldwide:	~2,600

- 60 percent of EBITDA comes from specialty chemicals
 - More than 25 percent from renewable materials

¹ For the 12 months ended June 30, 2009.



Trailing 12 Months' Pro Forma¹ Sales and Operating Revenue **By Commercial Unit** By Geography Ashland Hercules Water Technologies Ashland Europe 20% North Distribution 21% America 37% Ashland Performance Materials 68% Asia Pacific 7% Ashland 14% Aqualon Functional Ashland Ingredients Consumer **Markets** 11% Latin America/ 18% **Other - 4%**

• 32 percent of total revenue comes from outside North America

¹ For the 12 months ended June 30, 2009, including intersegment sales.



Ashland Aqualon Functional Ingredients A global leader in managing rheology of water-based systems

For the 12 Months Ended June 30, 2009 Pro Forma Revenue: \$1.0 billion Pro Forma Ongoing EBITDA: \$216 million Pro Forma Ongoing EBITDA Margin: 21.6%

	Business Overview	Rever
Customers	 Diversified, global customer base 	by Ma
Products	 Broad product line based on renewable resources Water-soluble polymers (cellulose ethers and guar derivatives) Refined wood rosin and natural wood terpenes 	Reven
Markets	 Water-based paints Regulated markets Personal care Food Pharmaceuticals Construction Paper coatings Oilfield (chemicals and drilling muds) 	by Pro Rever



Ashland Aqualon Functional Ingredients Strategy

- Use leadership position in cellulose ethers to drive growth through product innovation and geographic expansion
- Invest in additional water-soluble polymers that can be leveraged across multiple growth platforms and markets
- Leverage deep customer relationships in core markets (coatings, construction, personal care and pharmaceutical) to introduce high-value complementary products



Ashland Hercules Water Technologies A major global supplier of process and functional chemicals

For the 12 Months Ended June 30, 2009 Pro Forma Revenue: \$1.9 billion Pro Forma Ongoing EBITDA: \$165 million Pro Forma Ongoing EBITDA Margin: 8.7%



Business Overview		
Customers/ Markets	 Pulp and paper processing Industrial and institutional Mining 	
	 Municipal wastewater treatment 	
Products/ Services	 Process chemicals for microbial and contaminant control, pulping aids and retention aids 	
	 Functional chemicals for sizing and wet strength 	
	 Utility water treatments 	
	Process water treatments	



Ashland Hercules Water Technologies Strategy

- Build on leadership position in specialty papermaking chemicals through product-line extension and geographic expansion
- Extend best-in-class, market-focused business model to additional water-intensive verticals, leveraging core process chemical technologies
- Continue to optimize operational efficiency of high-volume functional chemical assets



Ashland Performance Materials A global leader in specialty chemicals

For the 12 Months Ended June 30, 2009		Business Overview
Pro Forma Revenue: \$1.3 billion Pro Forma Ongoing EBITDA: \$81 million Pro Forma Ongoing EBITDA Margin: 6.3% Revenue by Market	Customers	 Auto manufacturers; foundries; pipe and tank fabricators; packaging and converting; bathware, countertop and window lineal manufacturers; pipe relining contractors; boat builders; wide and narrow web printers
Revenue by Geography Latin America/ Other - 8%	Products/ Services	 Adhesives and Composites Unsaturated polyester resins Vinyl ester resins Gelcoats Pressure-sensitive adhesives Structural adhesives Specialty resins Casting Solutions Foundry binder resins Chemicals Sleeves and filters Design services
Asia Pacific - 9%	Markets	 Construction, packaging and con- verting, transportation, and marine

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Ashland Performance Materials **Strategy**

- Use market insight and thermoset chemistry expertise to create innovative substitutes that are stronger, lighter and more resistant than traditional materials for core transportation, construction and infrastructure markets
- Use leadership position in unsaturated polyester resins and vinyl ester resins to catalyze growth in Brazil, Russia, India and China
- Further build position in packaging and converting market, capitalizing on strength in high-end, solvent-based systems to drive innovation from our new water-based and radiation-cured technologies



Ashland Consumer Markets: A leading worldwide marketer of premium-branded automotive lubricants and chemicals

For the 12 Months Ended June 30, 2009 Pro Forma Revenue: \$1.7 billion Pro Forma Ongoing EBITDA: \$227 million Pro Forma Ongoing EBITDA Margin: 13.4%



Business Overview Retail auto parts stores and mass merchandisers who sell **Customers** to consumers; installers, such as car dealers and quick lubes; distributors Valvoline[®] lubricants and automotive chemicals MaxLife[®] lubricants for high-mileage vehicles SynPower[®] synthetic motor oil Products/ Services • Eagle One[®] and Car Brite[®] appearance products • Zerex[®] antifreeze Valvoline Instant Oil Change[®] service Do-It-Yourself (DIY) Market Do-It-For-Me (DIFM) Channels Valvoline International



Ashland Consumer Markets Strategy

- Use superior consumer insight to create channel-focused solutions that leverage the Valvoline brand
- Build brand loyalty in key Do-It-Yourself (DIY) growth segments, such as youth and Hispanics, through highly targeted advertising, promotions and programs
- Continue to deliver preferred customer experience in oil-change business through superior employee training, store traffic optimization, point-of-sale enhancements and highly targeted service offerings



Ashland Distribution A leading North American chemicals and plastics distributor

For the 12 Months Ended June 30, 2009 Pro Forma Revenue: \$3.4 billion Pro Forma Ongoing EBITDA: \$88 million Pro Forma Ongoing EBITDA Margin: 2.6%



Business Overview		
Customers	 Diversified customer base in North America and Europe 	
Products/ Services	 More than 28,000 packaged and bulk chemicals, solvents, plastics and additives 	
	 Comprehensive, hazardous and nonhazardous waste- management solutions in North America 	
	Construction	
	Transportation	
	 Chemical manufacturing 	
Markata	 Paint and coatings 	
IVIAI KEIS	Retail consumer	
	Personal care	
	• Medical	
	• Marine	

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Ashland Distribution Strategy

- Continue focus on efficiency to create highest-value channel for customers and suppliers
- Build best-in-class product offering by aligning with globally leading suppliers that:
 - have low-cost production
 - can ensure continuity of supply
 - are investing in their business
 - are industry leaders in quality and reliability
- Leverage Ashland's technical resources and asset network to provide mass market penetration for specialty products



Ashland Recent Performance and Near-Term Outlook

- Repayment of debt through cash flow is a priority to achieve investment-grade credit statistics
 - Reduced gross debt to under \$2 billion at June 30
- Focus on generating and growing cash flow
 - Generated cash flows from operating activities of \$649 million for fiscal year-to-date at June 30
 - Can be supplemented with noncore assets sales
- Exceeded \$265 million cost-reduction target by \$22 million, three months ahead of plan
- Margin and price management mitigating significant volume declines
- Resizing business and cost structure to reflect
 20-percent volume-reduction environment
- Ashland is well-positioned to outperform as the economy improves



Ashland's Strategy

- Focus on specialty chemicals supported by Hercules acquisition
- Generate cash flow for paying down debt
- Manage cost structure and leverage new scale
- Reduce volatility of earnings and cash flow and retain conservative financial position
- Invest in sustainable technologies to decrease reliance
 on petroleum-based raw materials
- Continue to grow in water-intensive industries to capitalize on increasing demand for clean, usable water
- Leverage formulation and application expertise
 into adjacent markets that value our customized-service model
- Accelerate investment in long-term high-growth nations such as Brazil, Russia, India and China
- Improve position in core specialty chemical businesses, while reducing investment in noncore businesses





Ashland Hercules Water Technologies

Formula for growth.

Paul C. Raymond III, President



How Our Products Are Used

Process Additives

Water Treatment **Chemicals**

Functional

Additives



Boiler Water



Softness





Contaminant Control

Cooling Water

Strength



Foam Control

Wastewater



Printability



Retention Aids



Influent Water



Sizing



Core of the Business ... How We Make Money

Technology Expertise – Process, Water Treatment, Functional

Customer Intimacy – Sales and Market Alignment

HERCULES

People Making Great Chemistry Happen

Application Expertise – Understanding Customers' Unique Applications Supply Chain Excellence – Make and Source Innovative, Cost-Effective Products





Platform Launch

AHWT Platform Launch

- Reflects strategic priorities
- Emphasizes high-margin products
- Showcases platforms that build competitive advantage

Organizational Alignment

- Dedicated team in each region
- Specific accountabilities







Incubator Businesses





Sonoxide Ultrasonic Water Treatment System

- Nonchemical, microbiological control for cooling water systems
- Market: \$800 million in cooling water
- Improved environmental profile
- Energy optimization
- Reduced chemical use
- Improved worker safety







Global Technology Footprint

- Research & Development
 - Wilmington, Delaware, U.S.A.
 - Krefeld, Germany
- Customer Applications Laboratories
 - Wilmington, Delaware, U.S.A.
 - Krefeld, Germany
 - Shanghai, P.R. China
 - Paulinia, Brazil (2010)











Global Manufacturing Footprint



* Facility closure announced.

Business Strategy

- Follow Responsible Care* principles to ensure that safety and environmental excellence are core values
- Achieve leadership positions in all of our growth and base markets
- Improve sales mix through new product introduction
- Grow top line in adjacent markets and emerging geographies
- Leverage external technology to augment internal efforts
- Balance service delivery investment to maximize profitable growth
- Maintain reliable and efficient global supply chain





Defining AHWT's Markets

Global Water/Pulp & Paper Market \$400 Billon





Sources: Poyry Global Pulp & Paper Market Review, 2008: Goldman Sachs Water Sector Primer, June 2005; Global Water Intelligence (GWI) Global Water Market Survey, 2008; The Future of Global Water Treatment Chemicals Market, Pira International; Citi Investment Research, "A Rising Tide of Growth" (March 2008), internal estimates.



AHWT Business Overview

Target Market \$28.5 B	AHWT \$2.0 B		AHWT Position
Pulp & Paper \$11.0 B	Process Chemicals ~\$450 MM	 Defoamers Pulp Microbiocides (MB) Other Contaminant control 	 \$1.1 B Leading position in size, strength, retention aids, MB
	Functional Chemicals ~\$650 MM	 Size Strength Retention aids 	 Complementary ultrasonic technology to current MB control offering Sizeable, but underperforming, position in polyacrylamides (municipal)
Water Treatment \$17.5 B	Water Treatment ~\$900 MM	 Boiler water Cooling water Waste water Recovery boilers 	 \$0.9 B Leading position in boiler & cooling water treatment for paper, commercial & institutional, food & beverage, general manufacturing and marine Significant player in highly fragmented market





AHWT Strategic Market Segmentation

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\$2.0 B			
Process	Vertical Markets	Segmentation	
Chemicals	Commercial &	<u>Growth</u>	Packaging
~\$450 MM	Institutional (C&I)	Pulp and paper segments	Tissue/Towel
	Chemicals	with high growth rates	Pulp
Functional	Food & Beverage	High-margin water segments with process expansion	Food & Bev
Chemicals	General Manufacturing	potential	
~\$650 MIM		Base	Printing &
	Lubes	Paper segments with	Writing
	Metals	moderate growth rates	Mining
Mator	Mining	Water segments with reasonable growth	Chemicals
water Treatment	Municipal	in water treatment	Gen'l Mfgr.
~\$900 MM	Oil Refining	<u>Opportunistic</u>	Manaiainad
	Printing & Writing	Low service, underperforming	Municipal Oil Refining
	Packaging	Water segments with limited/	Power
	Power Generation	no expansion into process applications	Metals
	Pulp	Stand-alone	
	Tissue/Towel	Lubes	



Growth Market Segments

Focus on markets with inherently higher growth

	Demand	Customer Profitability	Key Drivers
Tissue			 Fiber types/recycle – Biocides/contaminant control Emerging markets growing Absorbency and strength
Packaging			 Machine productivity – Dry strength China expansion
Commercial & Institutional (C&I)			 Urbanization driving market growth Purchasing consolidation driving demand for global suppliers Geographic expansion in industrialized markets Energy-reduction requirements driving treatment demand
Food & Beverage			 Industrialization driving demand for processed foods Increased water and food regulation driving chemical demand Emerging markets growing rapidly
Pulp			 Changing paper, board, tissue grade needs and fiber source Emerging market growth (Brazil, Chile, Russia, Indonesia, China and India) New technologies for new fiber sources





2009 Strategy for Growth Verticals

Actions





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Base Market Segments

Protect and maintain the business base

	Demand	Customer Profitability	Key Drivers
Printing & Writing			 Reduce costs – Increase filler loading, reduce overall chemical costs Resume significant expansion in Asia, mainly China Building larger machines and shutting the smaller ones
Mining			 Global slowdown has led to high reserves of aluminum, copper, nickel, zinc; prices flat in 2009, down from 2008 Precious metals and coal demand increasing Increased need for process chemicals to improve metals yield and water removal
Chemicals			 Process-focused, performance-driven and seeking more sophisticated programs and service expertise Accommodate volatility in supply and demand Typically engage in long-term corporate and/or global agreements Energy conservation
General Manufacturing			 Optimize efficiencies and reduce total cost of operation Cost – Economic slowdown has significantly reduced production in most sectors Need for restructuring will open door for innovation in water treatment





Strategy for Base Verticals

Actions

Protect Profit Engine	 Maintain product differentiation in base printing & writing and chemicals via healthy R&D pipeline Rationalize manufacturing assets to lower unit costs Commercialize new technologies in emerging geographies
Grow Water Treatment	 Expand geographical coverage in underdeveloped markets Develop products to fill gaps (e.g., equipment for dosing and monitoring)
Standardization	 Identify supply chain synergies to remove costs Rationalize water treatment product lines across geographies All regions reporting via SAP* platform
Channel to Market	 Cross-train field sales team to cover multiple markets Improve sales and applications expertise in Latin America and Asia Pacific Develop R&D relationships with early-adopter customers to develop game-changing products
HERCULES	



Alternate Business Model

Business Trends

- Low/declining margins in sizing/wet strength
- Lack of vertical integration in polyacrylamides (PAM) drives uncompetitive cost position in municipal segment
- Overall trend toward product commoditization
- Inability to monetize service offering
- Low value of innovation to customers
- · Some competitors have moved to low-cost model

Product Lines and Verticals Impacted

- Municipal market
- PAM distributors/contract service companies
- Paper sizing
- Paper wet strength

Implement Alternate Business Model

Targeted Outcomes



Summary

- AHWT Business Overview
 - \$2.0 billion business
 - Provides process, water treatment and functional chemistries to paper, pulp, commercial and institutional, food and beverage, chemical, marine and municipal industries
 - Products are used to improve operational efficiencies, enhance product quality, protect plant assets and ensure environmental compliance
- Business Strategy
 - Leverage platform-launch and incubator processes to accelerate growth through delivery of innovative, low-cost products to current and adjacent markets
- Use segmented approach to AHWT vertical markets
 - Resource growth verticals with dedicated sales, marketing and R&D teams
 - Manage base verticals primarily by sales to maximize profitable growth
 - Alternate business model enables cost-effective approach to volume growth with enhanced profitability in segments that do not require high service levels





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Ashland Aqualon Functional Ingredients

Formula for growth.

John E. Panichella, President



How Customers Use Our Products



Flow and Leveling



Stabilizing



Flow Properties



Conditioning



Drilling & Fracturing





Thickening



Binding



Suspending



Extrusion





Protective Coating



Gel Formation



Water Retention





Core of the Business ... How We Make Money

Technology Expertise – Cellulose, Guar and Aquaflow[®]

Sales and Market Alignment Gross Profit Engine Process Technology and Manufacturing – How to Make the Products and Drive Out Cost

Application Expertise – Understanding Customers' Unique Applications





How We Make Our Products



Aqualon

- Cellulose is cut from sheets/rolls into fine particles
- Cellulose is air-conveyed to reactor and swollen with caustic
- Ethylene oxide, propylene oxide or other reactants impart water-solubility
- Solvent recycled via distillation
- Viscosity reduction and purification
- Hot-air drying
- Grinding to control dissolution rate, dry blending, packing into bags/ sacks



Global Manufacturing Footprint







Facilities and Processes

- Eleven world-class manufacturing facilities including one joint venture
- New 10,000MT HEC facility under construction
- Low-cost facilities
- Combination of batch and continuous processes – 24/7 operations
- All facilities ISO-certified, well-maintained and in compliance with stringent EH&S guidelines
- Capital intensive



Zwinjdrecht, Netherlands





Global Technology Footprint





Growth Strategy

- Follow Responsible Care* principles to ensure that safety and environmental excellence are core values
- Expand Ashland Aqualon Functional Ingredients' portfolio of water-soluble polymers while adding complementary adjacent technologies that enable us to provide broader solutions to meet our customers' formulation needs globally





Ashland Aqualon Functional Ingredients Strategies

Core Organic

- Geographic expansion
 - China, Russia, India, Japan and South America
- Accelerate new product introductions
- Productivity ... cost/unit reduction
- Pricing leadership
- Capital investment consistent with growth

Adjacent Organic

- Commercialize existing programs ... film coatings, phosphate esters and redispersible powders
- Launch adjacent technologies consistent with strategic direction
- Align resources (capital and work force) to deliver this growth

Acquisition

Accelerate growth via bolt-on acquisitions ... good opportunities and consistent with the strategy





Solutions Offering ... How We Win!

Voice of Customer

Solutions Mode Broad portfolio of functional ingredients

Current State

Core products in a narrow technology area ... rheology control, water retention, etc. Specialty Blends A product customized to individual customer needs

> Innovation New products to solve clients' needs

Regulatory Products that help customers solve their regulatory issues

Total Costs Products and solutions to drive down the total cost of ownership Future State ... Solutions Platform

Core products, plus additional functionality

- Broaden the rheology portfolio
- Adjacent functionality ... redispersible powders, antifoam, color, etc.
- Specialty blends
- Synthetic functionality
- Expand hydrocolloid functionality



Market Segmentation

Industry	Redefined Markets (estimated market size)	Targeted Markets (estimated market size)
Coatings Additives	\$2.3 billion	\$1.7 billion
Construction	\$6.2 billion	\$2.1 billion
Energy	\$1.0 billion	\$0.5 billion
Specialties Solutions	\$3.0 billion	\$1.9 billion
Regulated Industries		
Pharmaceutical	\$2.0 billion	\$1.0 billion
Personal Care	\$3.5 billion	\$1.4 billion
Food	\$5.8 billion	\$2.2 billion

Segmenting Our Markets to Develop Our Growth Strategy



Source: Internal estimates.



Ashland Aqualon Functional Ingredients Targeted Segments

Industry	Targeted Markets (estimated market size)	Targeted Segment
Coatings Additives	\$1.7 billion	Water-Based Architectural
Construction	\$2.1 billion	Dry Mortar and Gypsum
Energy	\$0.5 billion	Cementing and Stimulation
Specialties Solutions	\$1.9 billion	Civil Engineering and Ceramics
Regulated Industries		
Pharmaceutical	\$1.0 billion	Oral Dosage Binders and Coatings
Personal Care	\$1.4 billion	Hair Care Rheology and Conditioning
Food	\$2.2 billion	Bakery, Process Foods and Beverage

Targeting Segments to Focus and Align Resources



Source: Internal estimates.



Targeted Segments

Industry	Primary Target	Future Target	
Coatings Additives	Water-Based (rheology, surfactants)	Industrial Coatings Emulsion Polymerization	
Construction	Dry Mortar and Gypsum	Concrete	
Energy	Cementing and Stimulation		
Specialties Solutions	Civil Engineering and Ceramics		
Regulated Industries			
Pharmaceutical	Oral Dosage (binders, coatings)	Oral Dosage (disintegrants)	
Personal Care	Hair Care (rheology, conditioning)	Skin Care	
Food	Bakery, Process Foods and Beverage		

Targeting Segments to Focus and Align Resources





Pha	arma	ceui	llCal

The \$2.0 billion business of producing and marketing excipients (i.e., inactive ingredients) for pharmaceuticals and nutritional supplements.

Target Excipient Market	Binders Immediate-release and controlled-release binders – A traditional focus with Klucel® HPC and Benecel® HPN Sections Polymers and formulated systems that deliver aesthed			<u>Major Competitors</u> Dow/Colorcon FMC ISP Colorcon	Key Chemistries • EC • HEC • HPC • MC	
\$10B	\$500 MM	and functional (controlled re AAFI introduced Aquarius c	elease, moisture barrier) properties. coating systems in 2007.	Evonik	Key Challenges Long approval cycles for new formulations	
	Disintegrants \$100 MM	Additives that enhance table participate in this space.	et disintegration. AAFI does not	ISP DMV International BASF	 Pending patent expirations for key drugs 	
Sources of Differentiation			Economic Model and	Health of Industry		
 Products have a long history of effective performance Strong brand recognition with Klucel HPC Vertical integration strategy with Aquarius coating systems Strong position in the nutritional supplement industry 						
 Performanc Strong bran Vertical intercoating sys Strong positindustry 	ive a long hi e d recognitio gration strat tems tion in the nu	story of effective n with Klucel HPC egy with Aquarius utritional supplement	 Large industrial base needer excipient manufacturing Excipients are low-volume, Continue to optimize the cubranded, generic, OTC and the studies, publications and frequencies, publications and frequencies, provide the seminars Need to improve positioning 	ed for cost-effective <i>high-value</i> stomer mix: nutritional re with application equent customer	 AAFI's highest-margin segment and relatively recession-resistant The growth of generics offers opportunity and threat Buying Behavior The formulator is traditionally the decision maker Highly risk averse – compelling value 	

The \$2.3 billion business of producing and marketing specialty additives for water-based architectural coatings.

	L		Major Competitors	Key Chemistries
	Rheology	Chemicals used to improve flow, leveling, water retention	Dow/Rohm & Haas	• HEC
	\$700 MM	and anti-spatter.	SE Tylose	Synthetic (Aquaflow)
Target Additives Market	Surfactants \$300 MM	Chemicals used for surface wetting, dispersion of pigments, improved gloss and color stability.	Dow/Rohm & Haas Rhodia Air Products	 Phosphate esters Antifoams Key Challenges
\$17B	Foam & pH Control	Chemicals used to neutralize and stabilize paint.	Cognis BYK Bhodia	 Weak global econom and paint demand
ψ1.7 D	S400 MM Preservatives \$300 MM	Chemicals used to ensure long-term stability.	Dow/Rohm & Haas	 Mature product lines contribute a lot of pro today
				Rate of growth of new

Sources of Differentiation	Economic Model and Path to Win
 Technical leadership and product performance Brand recognition Technical support and collaboration, including regional labs Global channel to market and depth of relationships with key commercial and technical decision makers 	 Requires new products and strong regional technical service Must maintain premium/price leader status in key products, e.g., HEC Grow emerging markets via continued investment in people Grow via adjacencies that allow us to leverage our strong channel and bring more value with the "total solutions" approach Maintain HEC market leadership with
A Aqualon	technology and manufacturing capacity

- ofit
- product sales

Health of Industry

 Although current crisis hurts industry profitability, long-term prospects for growth are solid, especially as housing standards improve in developing world

Buying Behavior

- Most customers value technical excellence in products and technical service
- · Customers prefer to align with strategic suppliers that are innovators and have broad portfolios

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	Personal	Care
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The \$3.5 billion business of producing and marketing specialty additives for the personal-care and cosmetics consumer markets.

			Major Competitors
Target	Conditioning \$300 MM	Chemicals that are substantive to hair and skin and provide conditioning performance such as softness, smoothness and de-tangling.	Rhodia BASF ISP
Specialty Chemicals Market	Rheology Control \$300 MM	Chemicals used to provide flow control, formulation stabilization, syneresis-control and suspension of active ingredients in a wide variety of personal care compositions, including toothpaste, shampoos, shower gels, shaving gels and conditioners	Dow Noveon
\$1.4 B	Other Specialty Polymers \$800 MM	Silicones, proteins and fixative polymers. AAFI does not participate in this space today.	Momentive Dow Corning BASF ISP Akzo

Sources of Differentiation

- Technical depth in focus areas
- Global account management
- Chemistry based on naturally occurring raw materials

Aqualon

Economic Model and Path to Win

- Must maintain premium/price leader status in key products, e.g., Natrosol HEC and Klucel HPC
- Follow multinational corporations into emerging regions and source the demand from local plants at price points required to win in these geographies
- Engage with multinational corporations at R&D level and focus R&D programs on a key few opportunities where AAFI is competitively positioned to win

Key Chemistries

- CMC
- HEC
- Guar

Key Challenges

- 3- to 5-year development timeline
- Replacement of cationic chemistry with less ecotoxic molecules
- Competition from small, lower-priced suppliers in China and India

Health of Industry

 Recession is hitting even P&G and Unilever hard as retailers manage to lower inventories and consumers switch to generics

Buying Behavior

- Customers value technical excellence in products and product support
- Customers value interaction and input to their R&D processes

Construction

The \$6.2 billion business of producing and marketing additives for the tile cement, gypsum and exterior insulation markets.

I				Major Competitors
Target	Cellulose Ethers \$1.1 B	MC, HEC and EHEC used for water retention and rheology control to achieve workability, adhesion and strength.	Dow Wolff SE Tylose Samsung Akzo Chinese suppliers	
	Additives Market	Redispersible Powders \$900 MM Redispersible latex polymers added to improve adhesion, flexibility and water repellency.		Wacker Akzo (Elotex) Dairen Dow Hexion BASF
	\$ζ.Ι R	Functional Additives \$100 MM	Starch ethers, air-entrainers, polyacrylamides, set-time additives and defoamers used to enhance workability and durability.	Avebe Agrana Emsland Sichel (Henkel) Cognis

Sources of Differentiation	Economic Model and Path to Win
 Technical leadership and product performance Product portfolio scope Brand recognition Large-scale Chinese operations with high quality Tianpu joint venture First-mover abilities in establishing JDAs with key clients 	 Tianpu joint venture to serve low-end and price-sensitive markets Must maintain premium/price leader status Grow in emerging markets via investment in plants/people to seed the market as technology advances Technology differentiation via formulation exportise
	expertise

 Grow mature markets via adjacencies; however, need continuous product evolution to offer alternatives to lower-priced products

Key Chemistries

- MC
- Redispersible powders **Key Challenges**
- Cellulose supply and costs
- Commodifization
- Mature vs. emerging markets
- Changing construction practice
- · Cost vs. performance
- Regional needs

Health of Industry

- MC global demand has grown steadily over the past 10 years. Continued growth expected, but economic crisis has impacted this market
- Redispersible powders will continue to grow as more formulated products are developed and job-site mixing is reduced in emerging regions

Buying Behavior

- Customers value technical excellence in products and product support
- · Customers expect justin-time supply and formulation support

- Global channel
- Sustainability



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Energy

The \$1.0 billion business of producing and marketing drilling, well-stimulation and cementing additives for the production of oil and natural gas.

Tormat	Drilling Additives \$200 MM	Cellulosic ethers (CMC) us control as additives with di	ed for rheology and filtration rilling muds.	<u>Major Competitors</u> CP Kelco Lamberti Dow Wolff	Key Chemistries CMC Guar Key Challenges
Target Energy Market \$500 MM	Well Stimulation \$200 MM	Guar and guar derivatives u proppant carrier for high-pi	ed for rheology control and Benchmark ssure fracturing of gas wells. Economy Polymer Other		 Current downturn in global oilfield market Global applications expertise Geographical expansion
	Cementing Additives \$100 MM	Cellulosic ethers (HEC) use gas migration control as ac	ed for rheology and fluid loss and dditives into high-density cement.	Dow Wolff SE Tylose Clariant	Emerging market competitors Health of Industry Current downturn in market
Sources of Differentiation			Economic Model and	Path to Win	ket due to lower global price/demand for oil and natural gas. N. A. rig
 Innovative manufacturer of novel products Industry application expertise Broad portfolio of additives for drilling, stimulation and cementing Global manufacturing footprint 		 Requires supply chain efficiency and ability to maintain local inventory near well sites Must maintain premium/price leader status in key products, e.g., cementing, synthetics Grow emerging markets via investment in plants/people 		 count down to levels las seen in 2004 Industry turnaround expected 2010 	
				Customers value techni- cal excellence in prod- ucts and product support	

 Expand global applications expertise to support regional requirements by service companies

- Customers expect to buy a full range of products from a single supplier
- Customers value suppliers with global reach both commercial and technical

Source: Internal estimates.

Grow the Core First ... Then Adjacencies







Products by Industry Segment

	AAFI 2008 (MT)	Food	Pharma	Personal Care	Energy	Construction	Specialties Solutions	Coatings Additives
HEC	42,000		L	L	М	L	L	Н
CMC	55,000	Н		М	Н		М	L
MC	39,000	М	L			Н	М	
EC	900		L				Н	
HPC	1,900		Н				L	
Guar	53,900	М		М	Н	L		
Polyterpene Resin	31,500			L			Н	
Film Coatings	100		Н					
Redispersible Powders	300					Н		
Synthetic (Aquaflow)	600				L			Н
Phosphate Esters	1,000							Н
Antifoams	200					L	М	Н

Relative Consumption: H = High, M = Medium, L= Low





Adjacent Products Selection Criteria

One-Step Adjacencies



Total = \$9 Billion

Market size and growth rate Channel strategy Target existing customer base Competitive landscape ✓ Intellectual-property landscape Technical capability requirements Relative cost position vs. market leader ✓ Value chain analysis Regulatory environment and trends ✓ Formulation expertise Voice-of-customer interviews





Ashland Aqualon Functional Ingredients Strategies

Core Organic

- Geographic expansion
 - China, Russia, India, Japan and South America
- Accelerate new product introductions
- Productivity ... cost/unit reduction
- Pricing leadership
- Capital investment consistent with growth

Adjacent Organic

- Commercialize existing programs ... film coatings, phosphate esters and redispersible powders
- Launch adjacent technologies consistent with strategic direction
- Align resources (capital and work force) to deliver this growth

Acquisition

Accelerate growth via bolt-on acquisitions ... good opportunities and consistent with the strategy





ASHLAND.

KeyBanc Analyst Day August 14, 2009

Formula for growth.

Investment Highlights

- Among top 10 specialty chemicals companies worldwide
 - Diversified business portfolio serving wide range of end markets
 - Leading market positions across platform
- Strong emphasis on cash flow generation and debt pay-down
 - Reduced debt by \$616 million in eight months since Hercules acquisition
- Over-delivering on cost-reduction program
 - Achieved \$287 million in total Ashland run-rate savings at June 30, three months ahead of plan
 - Total Hercules run-rate synergies of \$130 million by fiscal year-end 2010
- Additional sources of cash available
 - Working capital, auction rate securities, divestitures
- Management committed to conservative financing structure
 - Total leverage of 2.4x
 - Aim to achieve investment-grade credit statistics within 12 months
- Equity market capitalization of approximately \$2.0 billion
- Experienced management team



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Abbreviations

AAFI = Ashland Aqualon Functional Ingredients AHWT = Ashland Hercules Water Technologies BWT = Boiler Water Treatment(s) C&I = Commercial & Institutional CMC = Carboxymethylcellulose CWT = Cooling Water Treatment(s) EC = Ethylcellulose EH&S = Environmental, Health & Safety EMEA = Europe, Middle East, Africa FTEs = Full-time employees HEC = Hydroxyethylcellulose HPC = Hydroxypropylcellulose MB = Microbiocide(s) MC = Methylcellulose PAM = Polyacrylamide(s) **RDP** = Redispersible powders

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